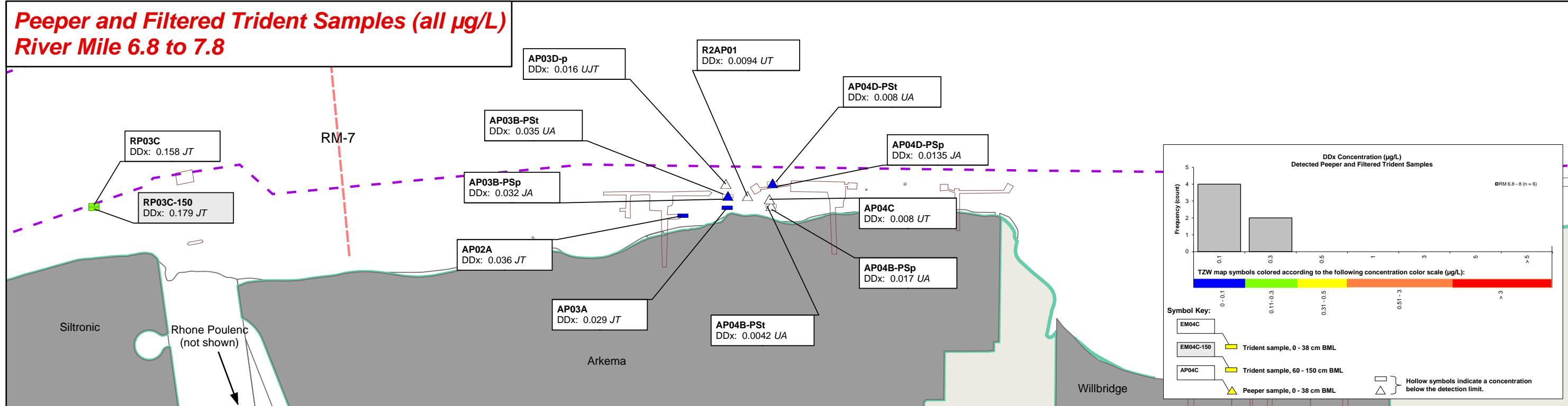
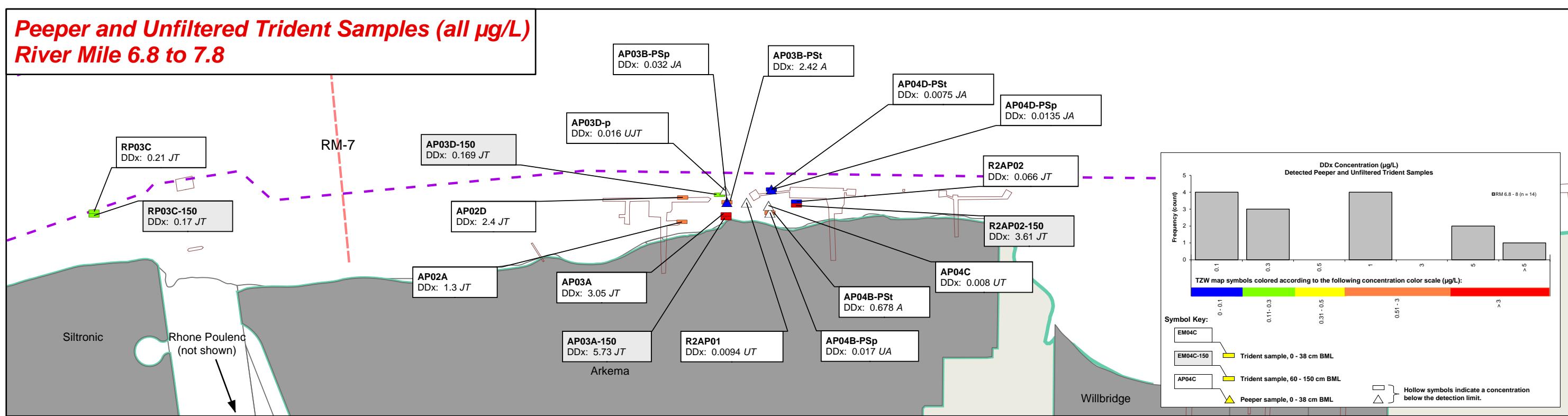


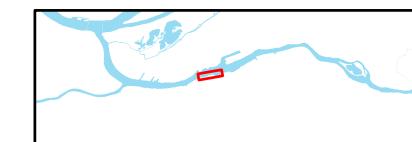
Peeper and Filtered Trident Samples (all µg/L) River Mile 6.8 to 7.8



Peeper and Unfiltered Trident Samples (all µg/L) River Mile 6.8 to 7.8



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:

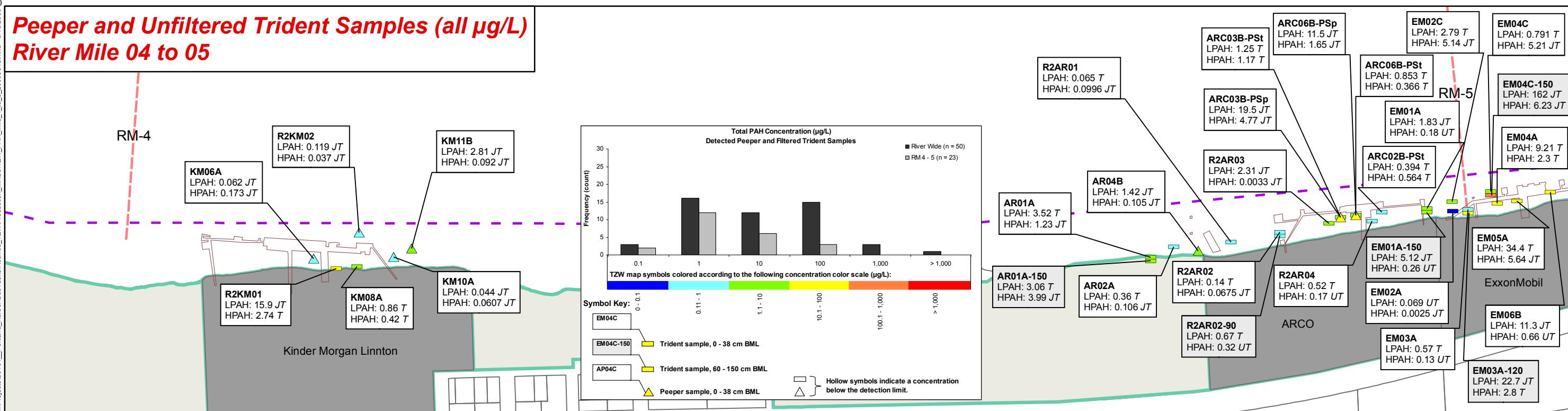
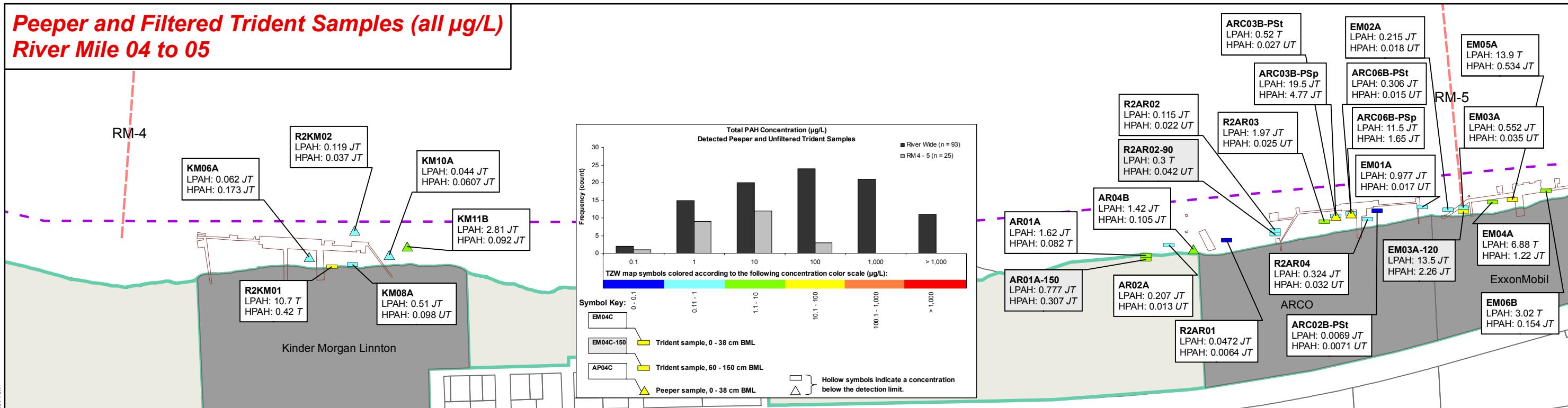
- T** Mathematically derived value.
- J** The associated numerical value was approximated by the analytical laboratory.
- U** The analyte was not detected above the reported sample quantitation limit.
- UJ** The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
- A** Total value based on a limited number of analytes.

Map Features

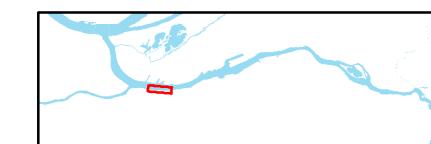
- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-1
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
DDx (µg/L)
River Mile 6.8 to 7.8



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

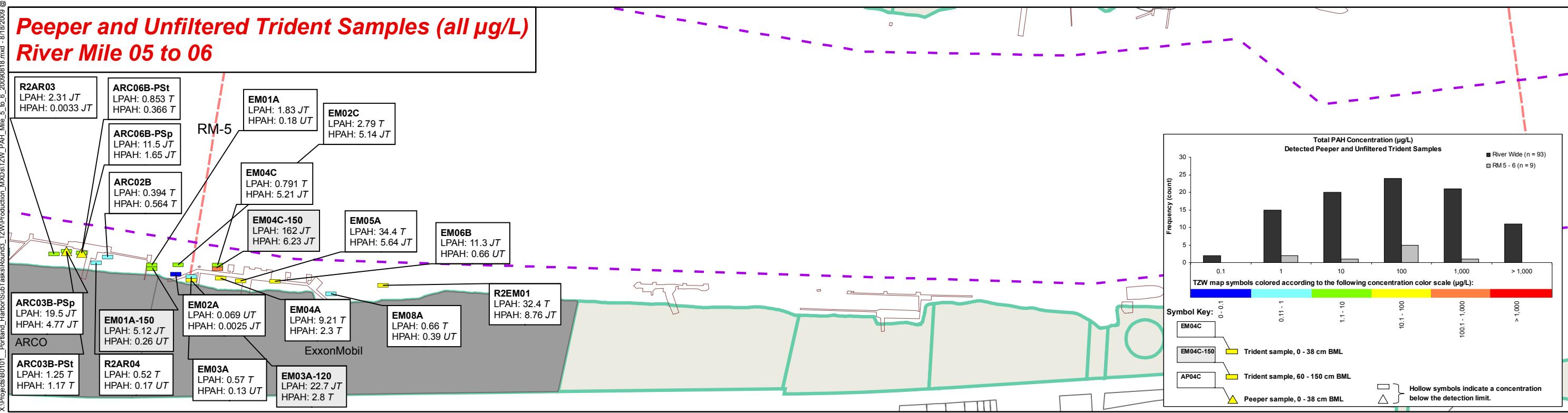
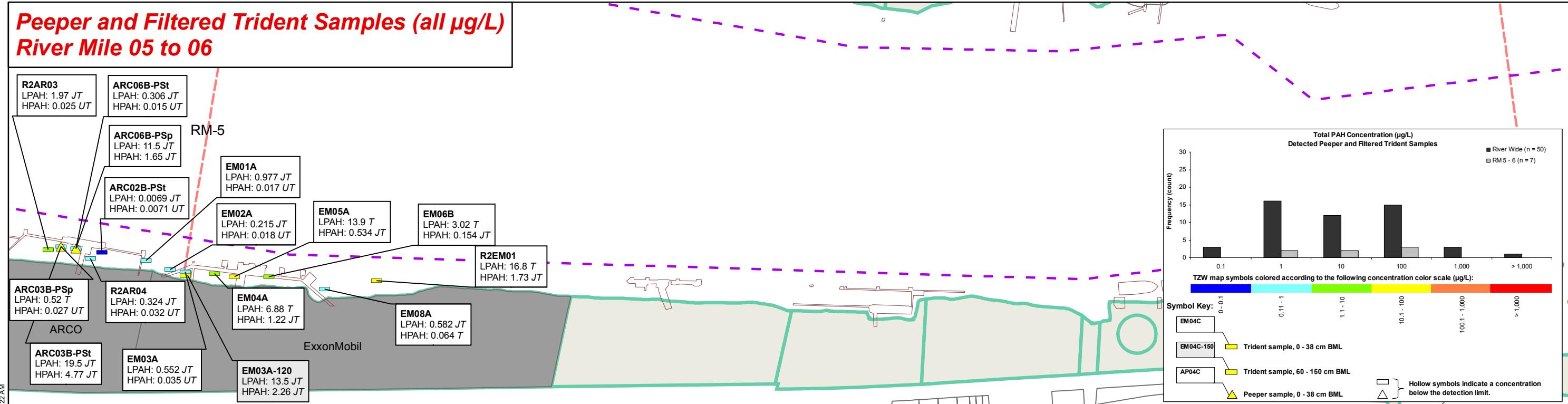
Qualifiers:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

Map Features
Docks and Structures
Navigation Channel
River Miles
GWPA Study Site
Upland Sites (2008)
Waterfront Taxlots

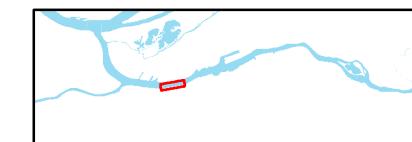
0 250 500 750 1,000 Feet

Map 5.5-2a

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Total PAHs (µg/L)
River Mile 04 to 05



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers
Docks & In-water Structures: digitized from October
2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PPsp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:

T Mathematically derived value.

J The associated numerical value was approximated by the analytical laboratory.
K The analyte was not detected above the reported sample quantitation limit.

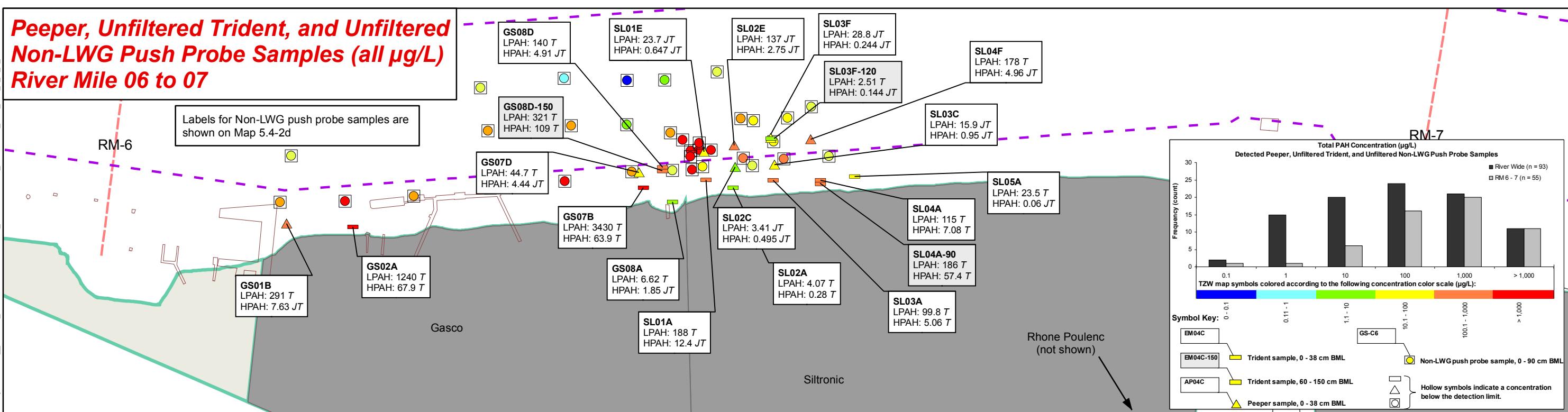
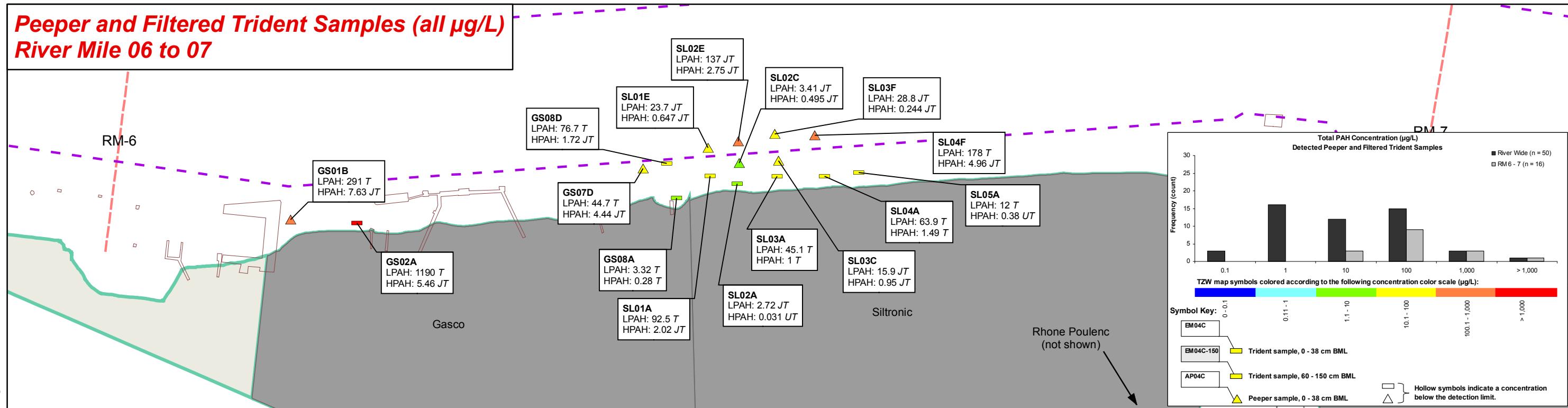
U The analyte was not detected above the reported sample quantitation limit.
 UJ The analyte was not detected above the reported sample quantitation limit; however,

The analysis was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.

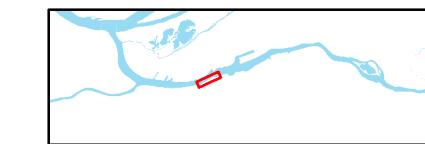
A Total value based on a limited number of analytes.

Map 5.5-2b

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Total PAHs (μ g/L)
River Mile 05 to 06



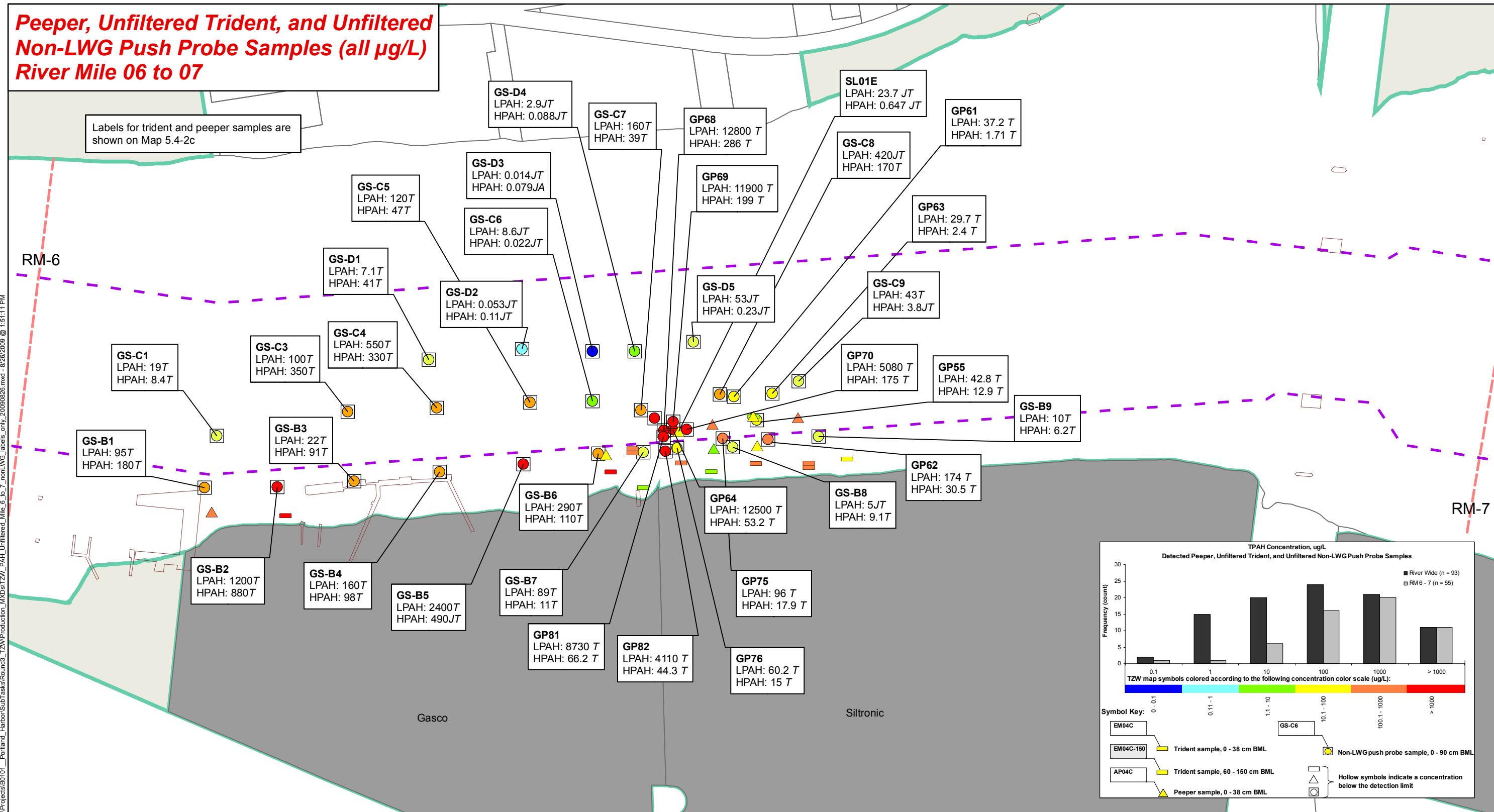
FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



Qualifiers:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

Map 5.5-2c

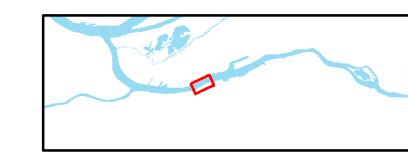
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Total PAHs (µg/L)
River Mile 06 to 07



Map Features

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland Sites (2008)
- Waterfront Taxlots

FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos

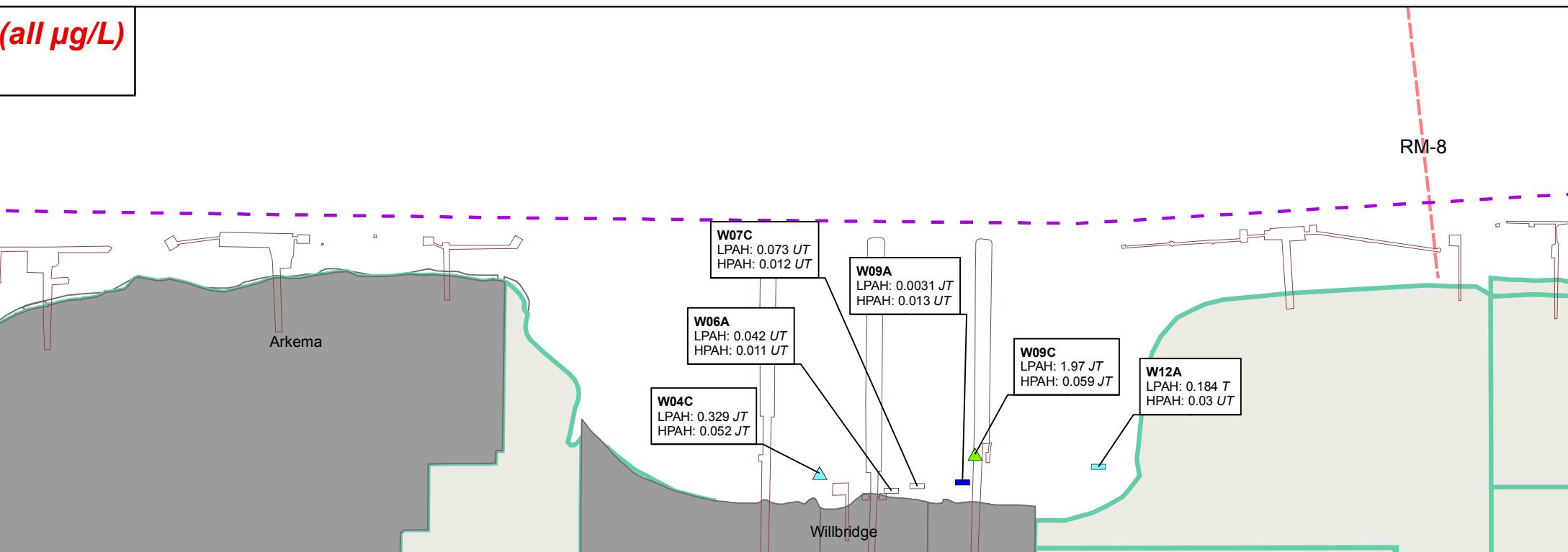
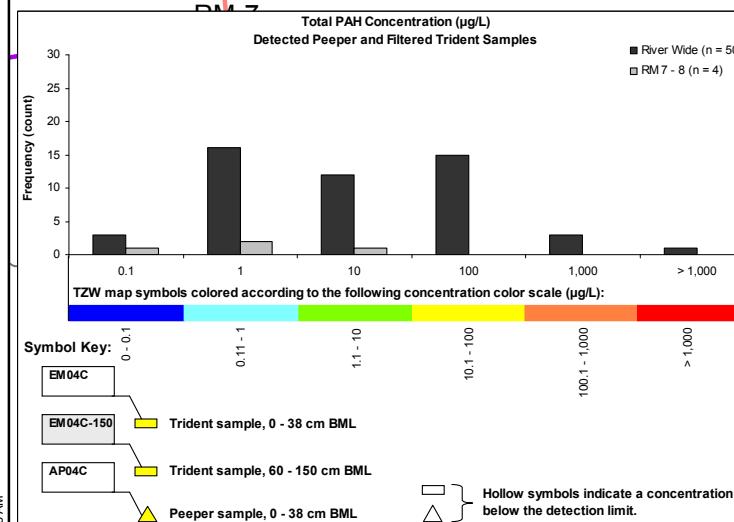


0 250 500 750 1,000 Feet

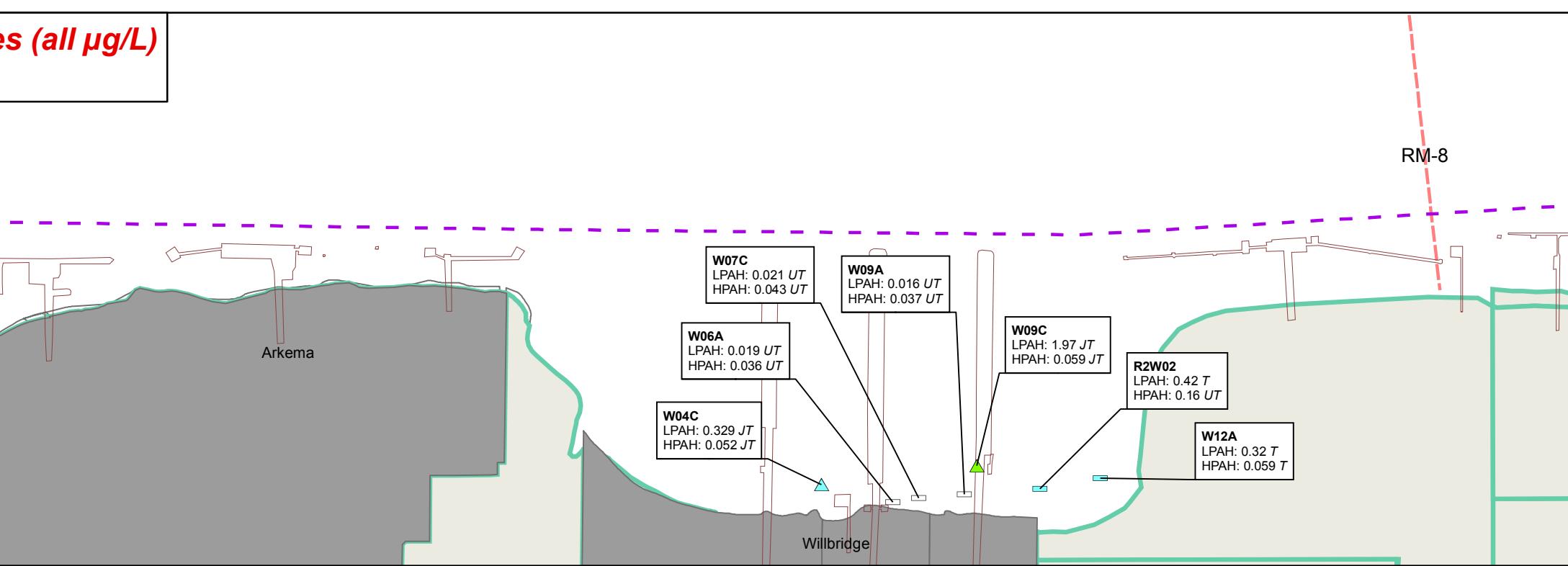
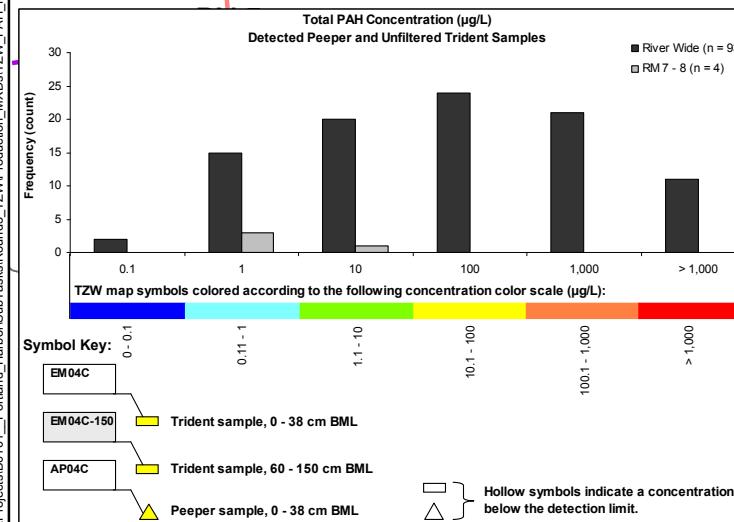
Map 5.5-2d

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Total PAHs ($\mu\text{g/L}$)
River Mile 06 to 07, zoom

Peeper and Filtered Trident Samples (all µg/L) River Mile 07 to 08



Peeper and Unfiltered Trident Samples (all µg/L) River Mile 07 to 08



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos

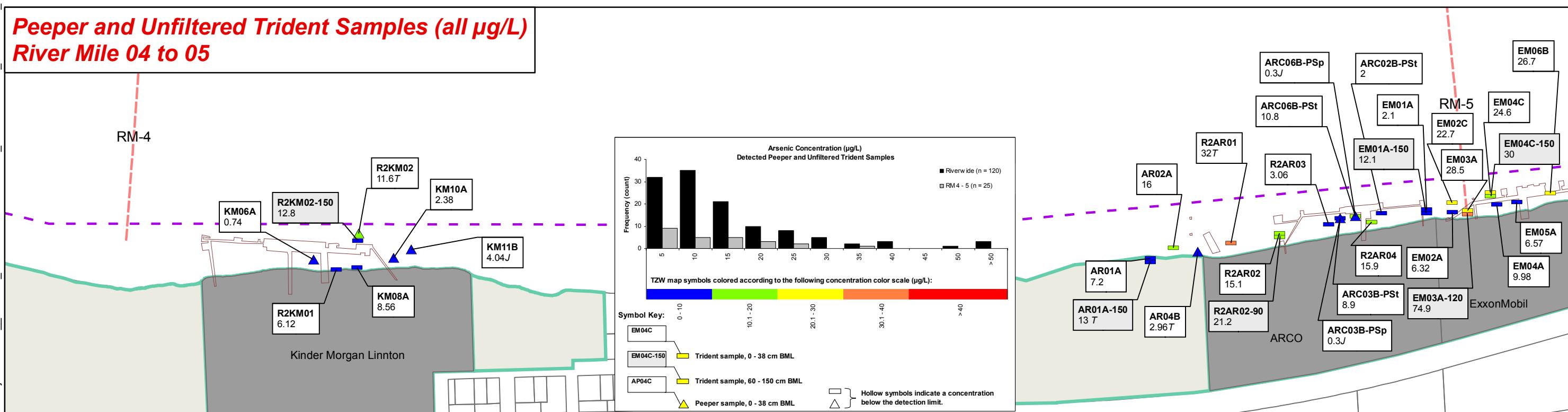
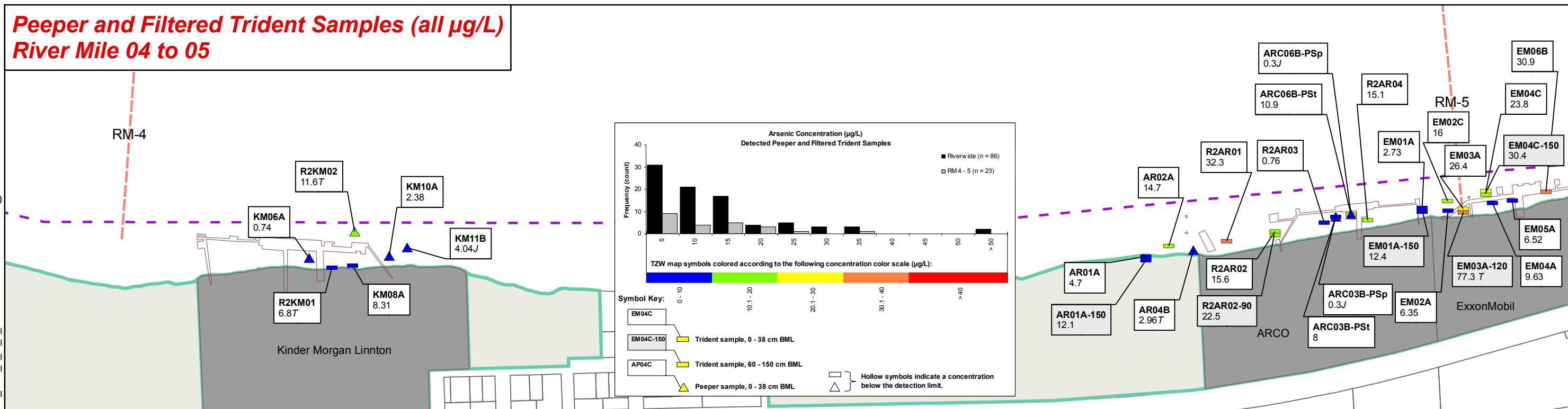


Qualifiers:
T Mathematical derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

- Map Features**
- Docks and Structures
 - Navigation Channel
 - River Miles
 - GWPA Study Site
 - Upland ECSI Sites (2008)
 - Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-2e
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Total PAHs (µg/L)
River Mile 07 to 08



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

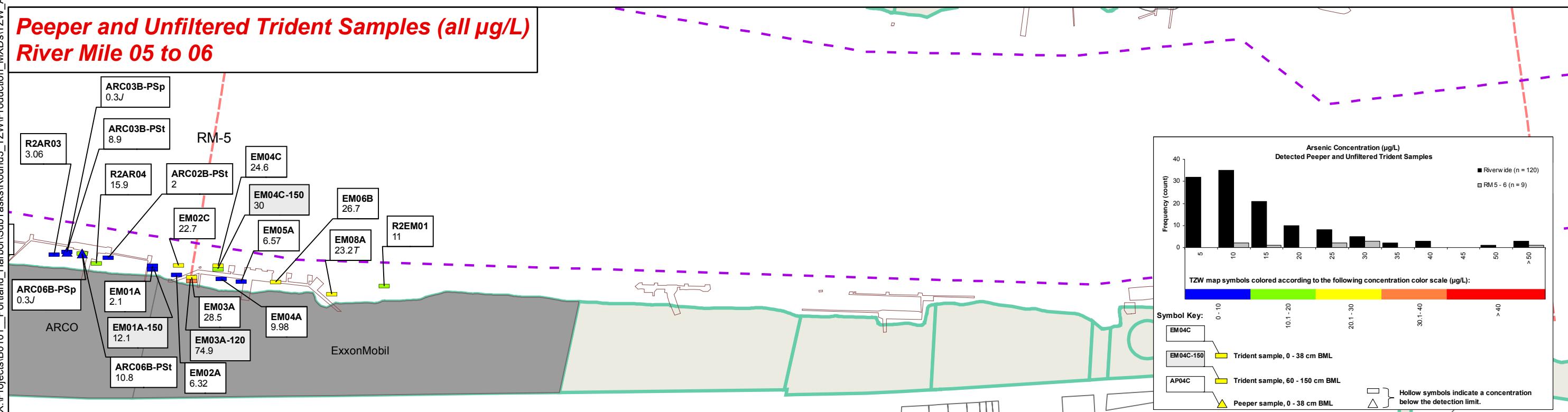
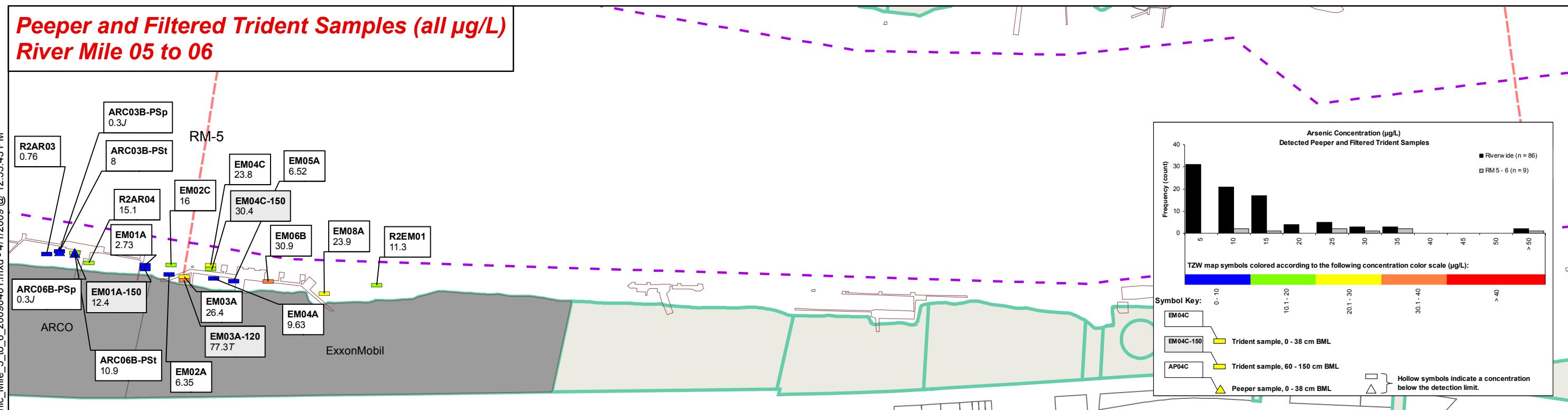
Qualifiers:
T Mathematical derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

Map Features

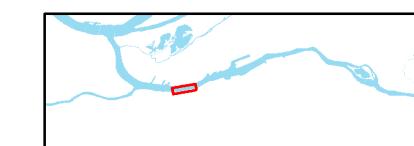
- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-3a
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Arsenic (µg/L)
River Mile 04 to 05



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



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PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

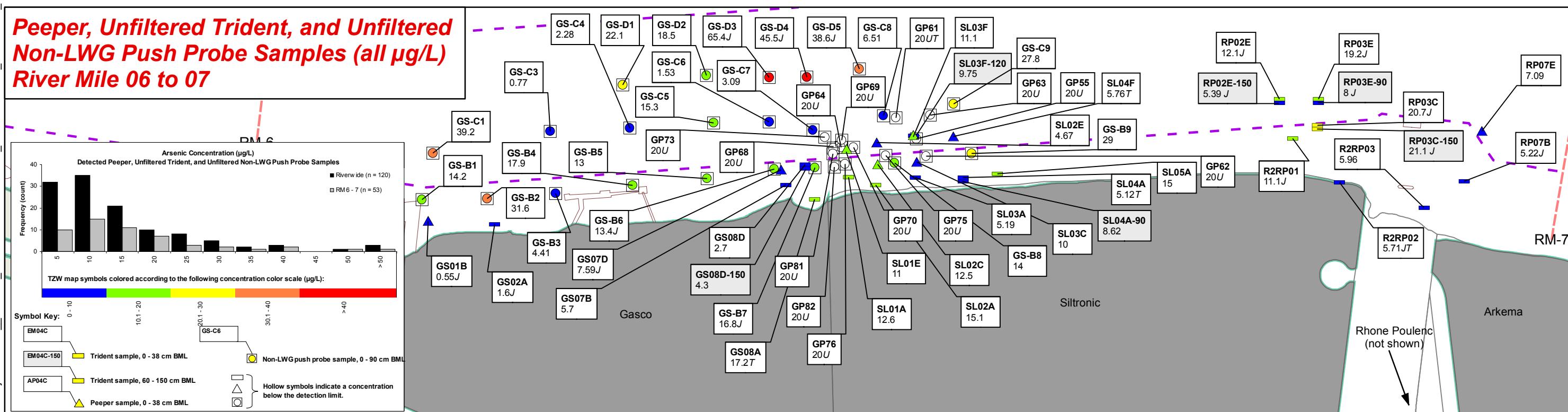
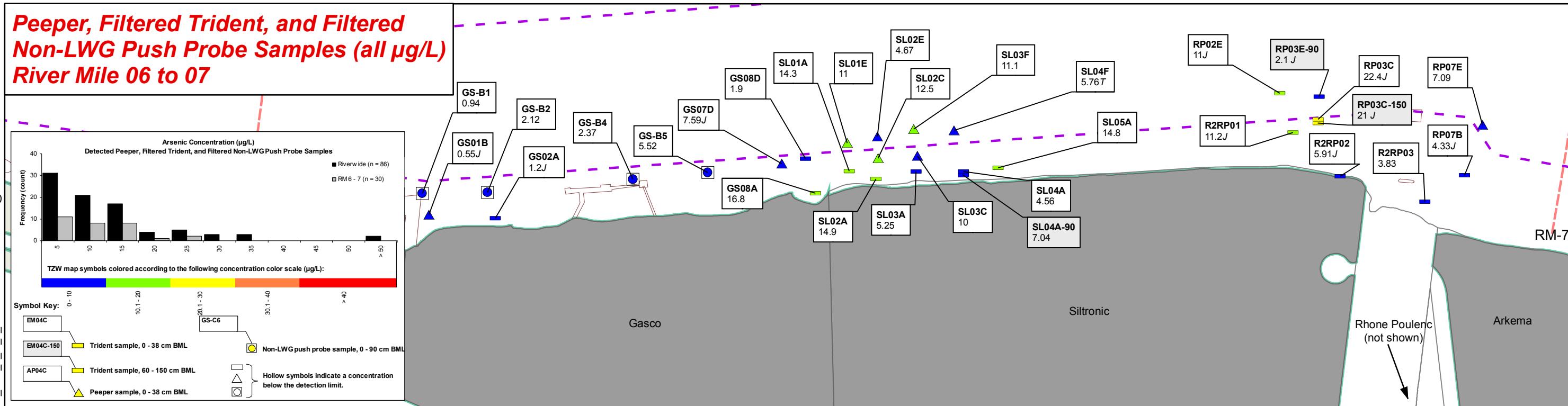
Map Features

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

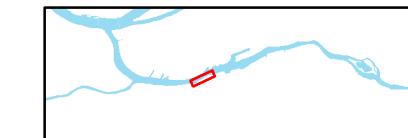
0 250 500 750 1,000 Feet

Map 5.5-3b

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Arsenic (µg/L)
River Mile 05 to 06



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

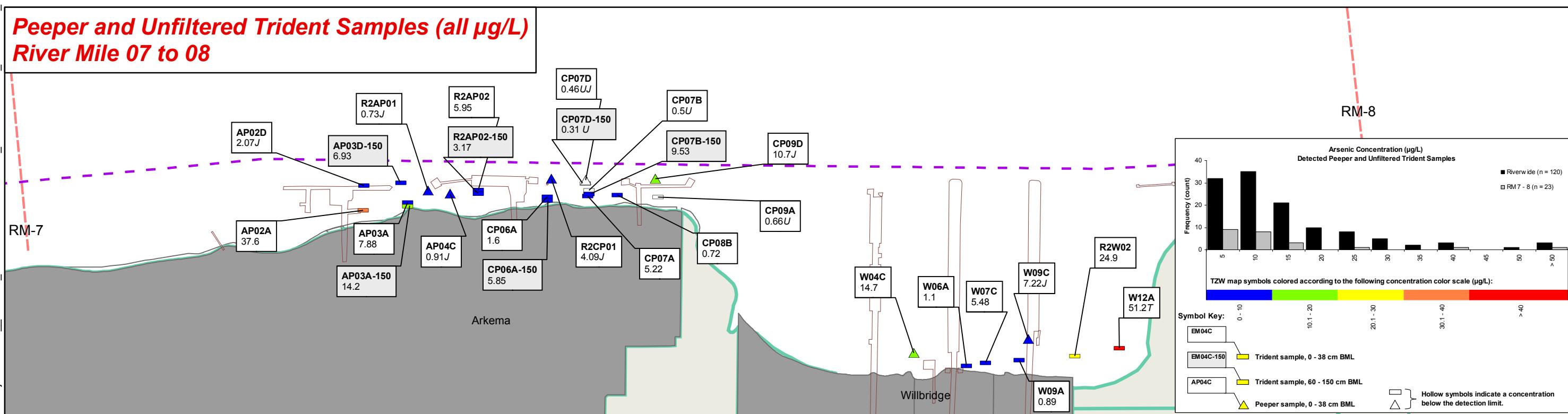
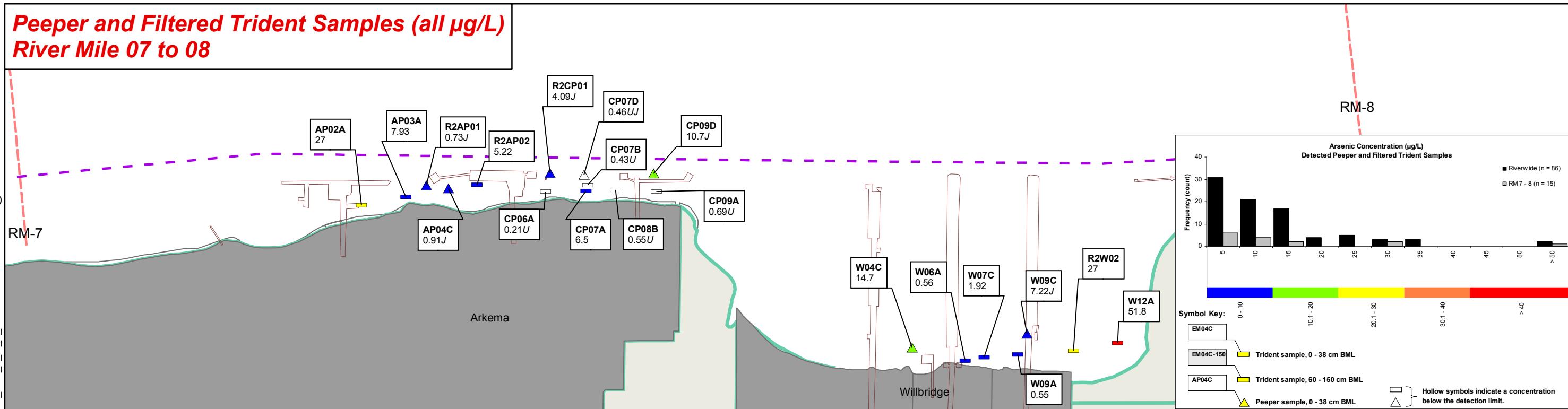
Map Features:

- River Miles
- R2 GWPA Study Site
- Docks and Structures
- Navigation Channel
- Waterfront Taxlots
- Upland Sites ECSI (2008)

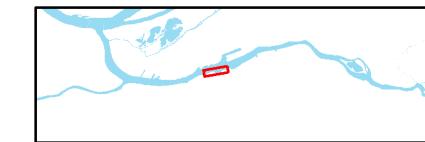
0 250 500 750 1,000 Feet

Map 5.5-3c

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Arsenic (µg/L)
River Mile 06 to 07



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

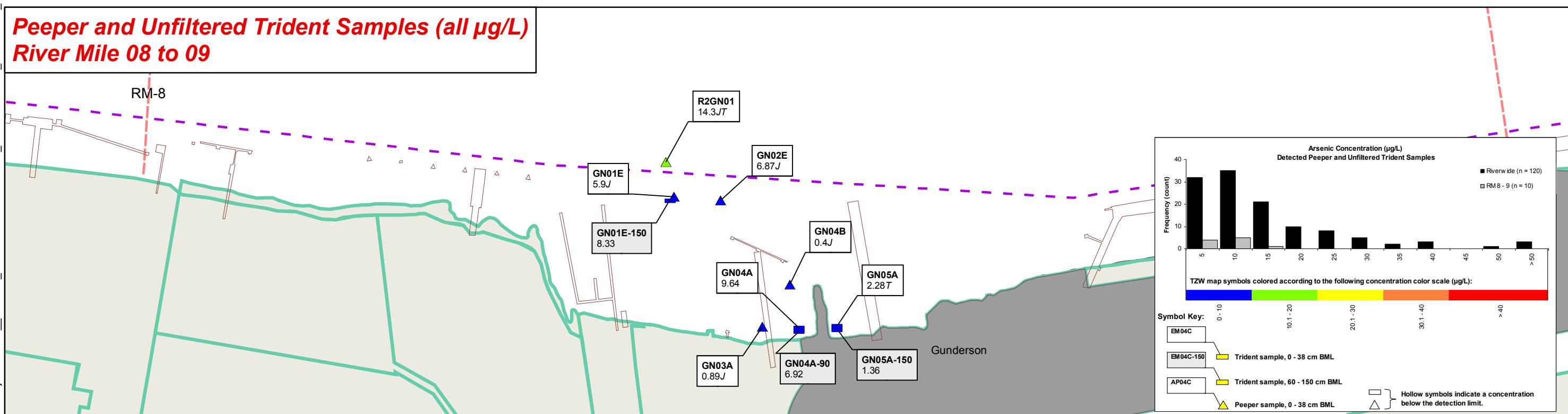
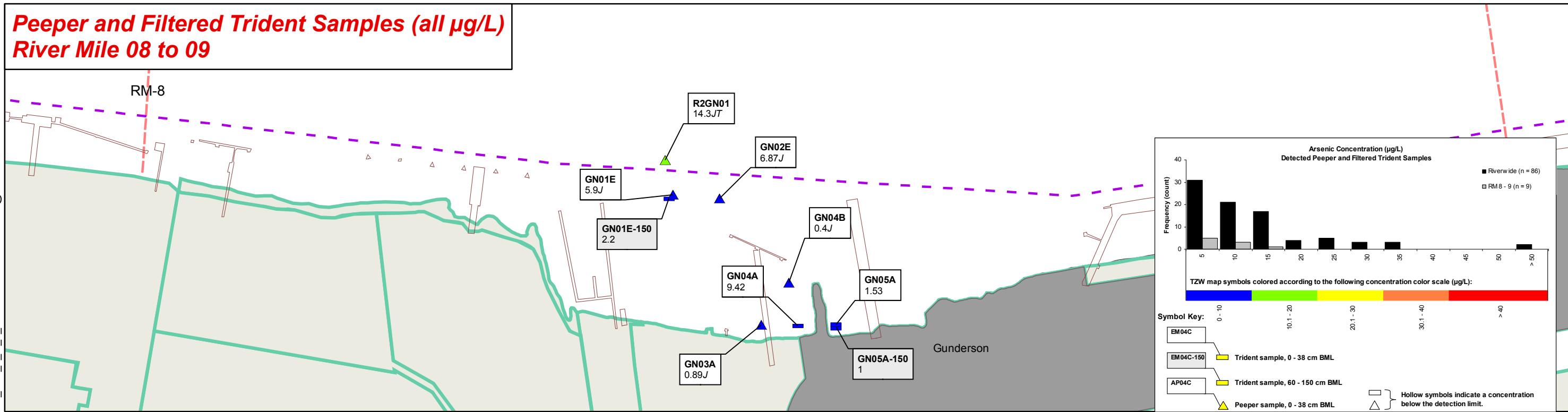
Qualifiers:
 T Mathematically derived value.
 J The associated numerical value was approximated by the analytical laboratory.
 U The analyte was not detected above the reported sample quantitation limit.
 UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
 A Total value based on a limited number of analytes.

Map Features

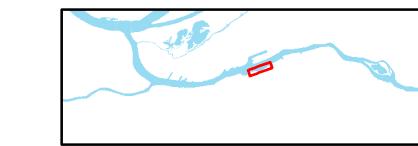
- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-3d
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Arsenic ($\mu\text{g/L}$)
River Mile 07 to 08



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



Tabular Results Notes:

- T Mathematically derived value.
- J The associated numerical value was approximated by the analytical laboratory.
- U The analyte was not detected above the reported sample quantitation limit.
- UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
- A Total value based on a limited number of analytes.

Map Features

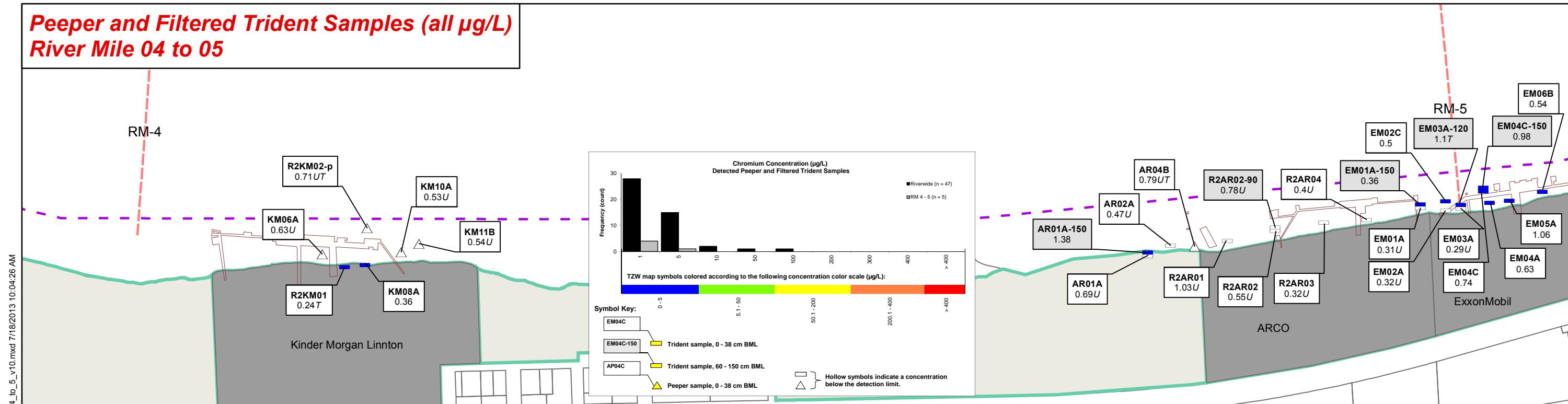
- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet

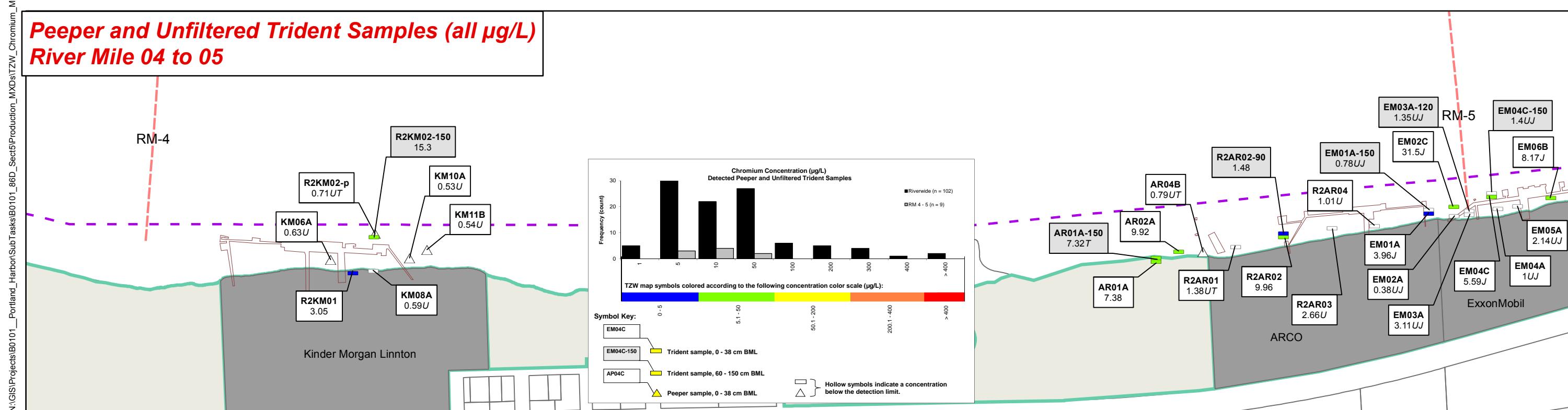
Map 5.5-3e

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Arsenic (µg/L)
River Mile 08 to 09

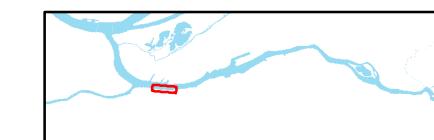
Peeper and Filtered Trident Samples (all µg/L) River Mile 04 to 05



Peeper and Unfiltered Trident Samples (all µg/L) River Mile 04 to 05



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

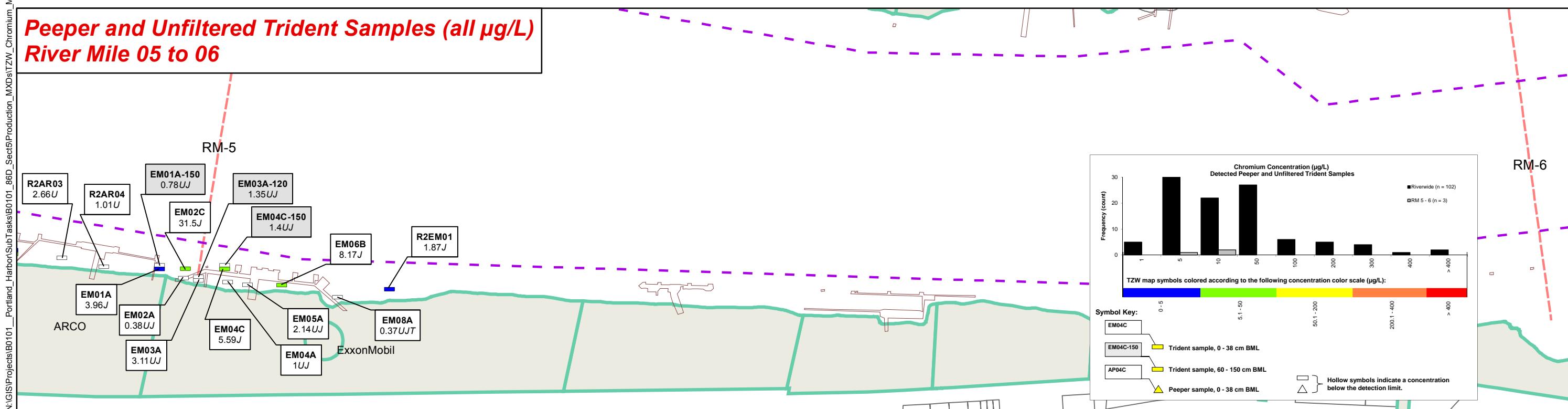
Qualifiers:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

Map Features

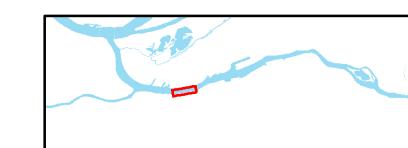
- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-4a
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Chromium (µg/L)
River Mile 04 to 05



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

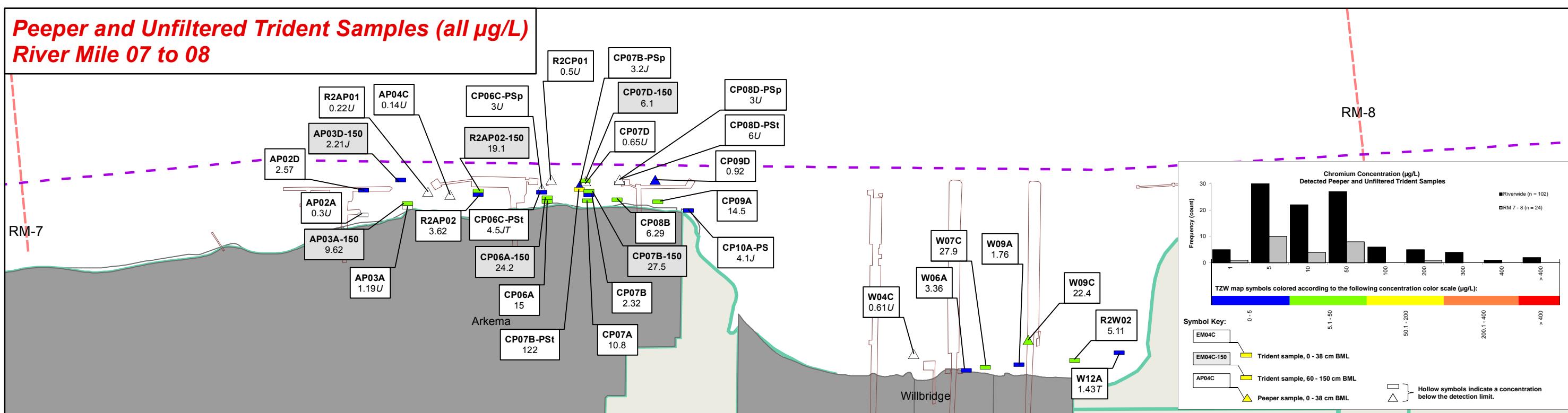
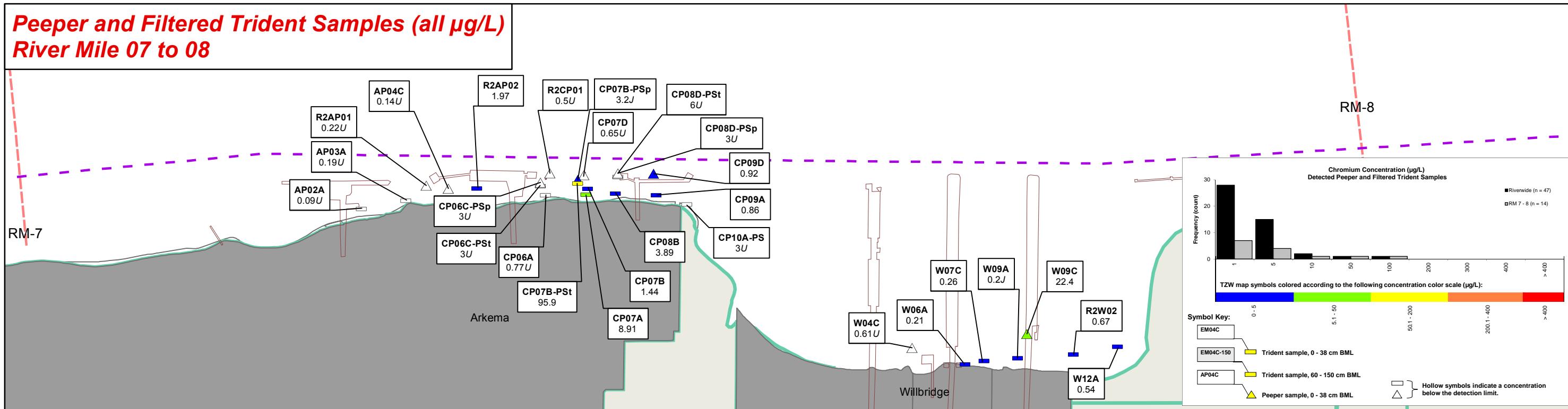
Map Features

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

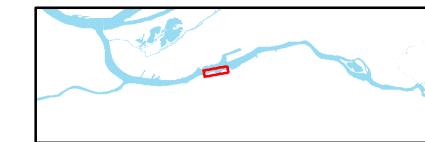
0 250 500 750 1,000 Feet

Map 5.5-4b

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Chromium ($\mu\text{g/L}$)
River Mile 05 to 06



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:
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 J The associated numerical value was approximated by the analytical laboratory.
 U The analyte was not detected above the reported sample quantitation limit.
 UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
 A Total value based on a limited number of analytes.

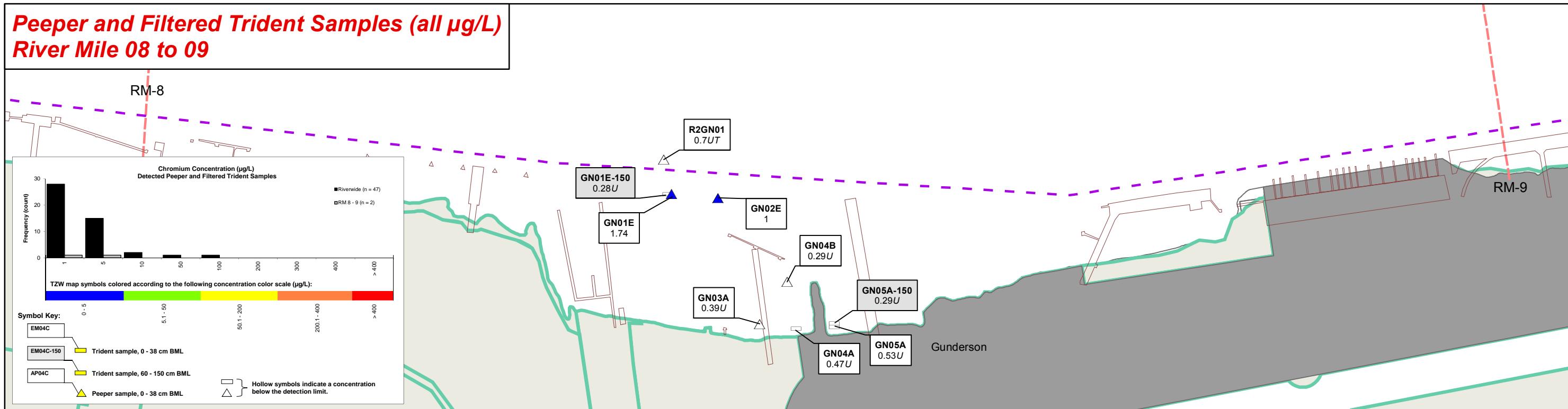
Map Features

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

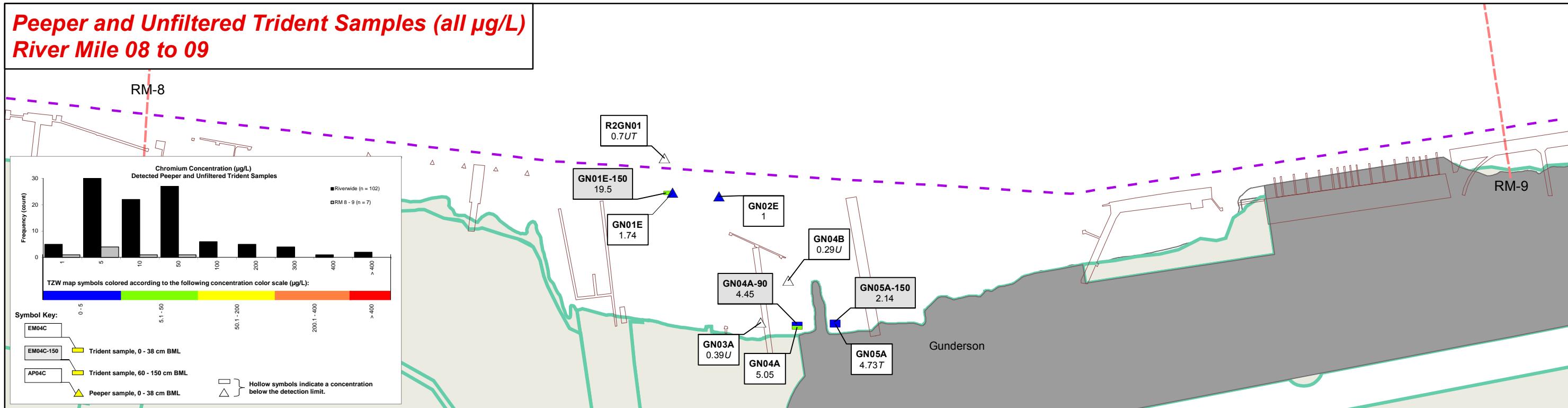
0 250 500 750 1,000 Feet

Map 5.5-4d
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Chromium (µg/L)
River Mile 07 to 08

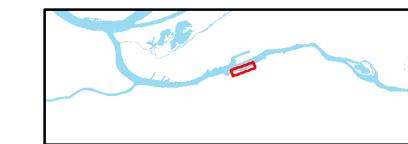
Peeper and Filtered Trident Samples (all µg/L) River Mile 08 to 09



Peeper and Unfiltered Trident Samples (all µg/L) River Mile 08 to 09



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos

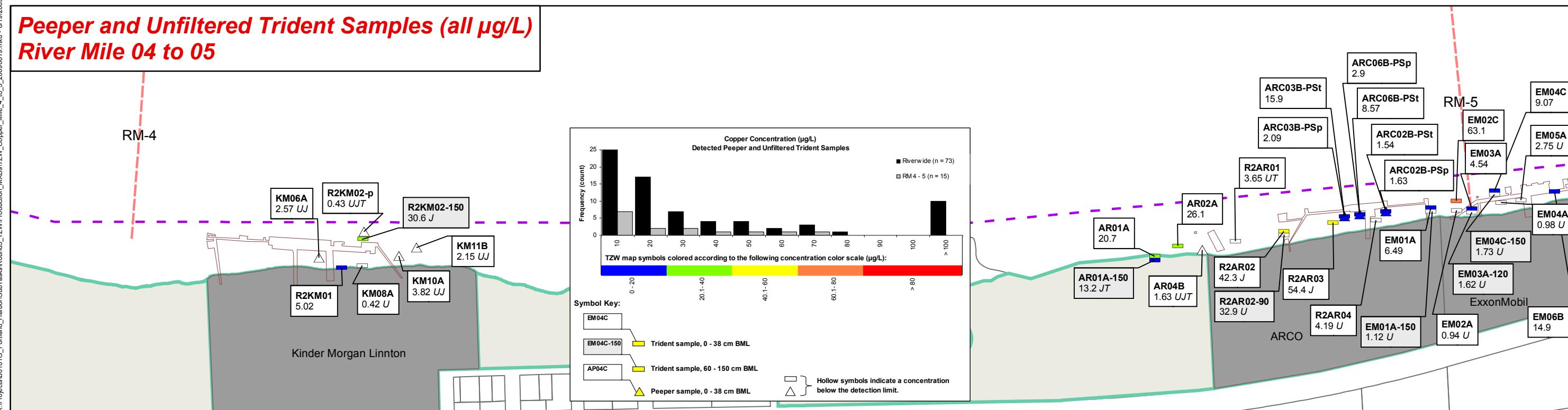
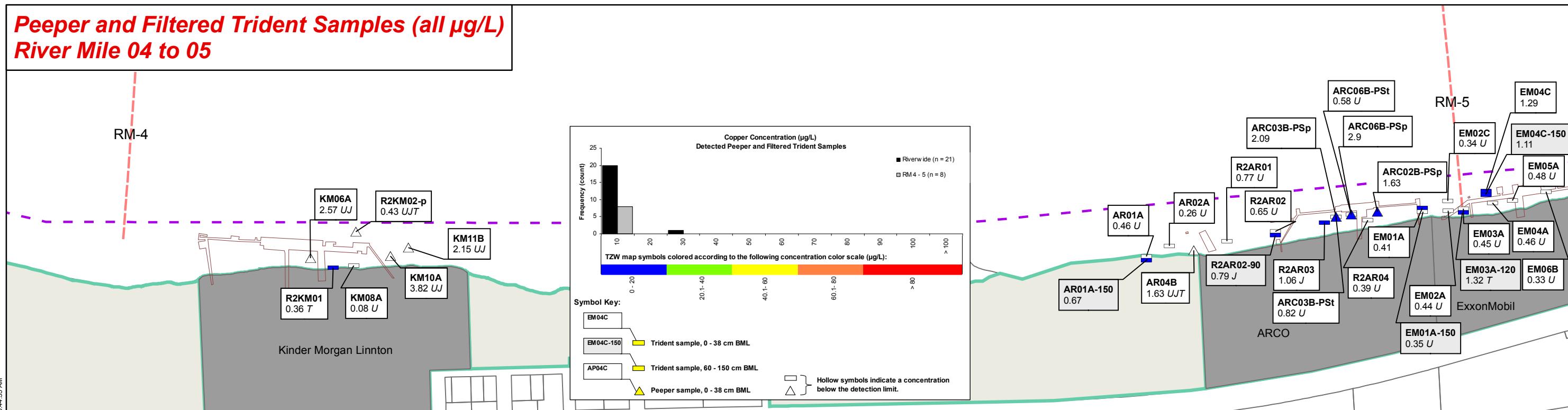


Tabular Results Notes:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

Map Features

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:

- T Mathematically derived value.
- J The associated numerical value was approximated by the analytical laboratory.
- U The analyte was not detected above the reported sample quantitation limit.
- UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
- A Total value based on a limited number of analytes.

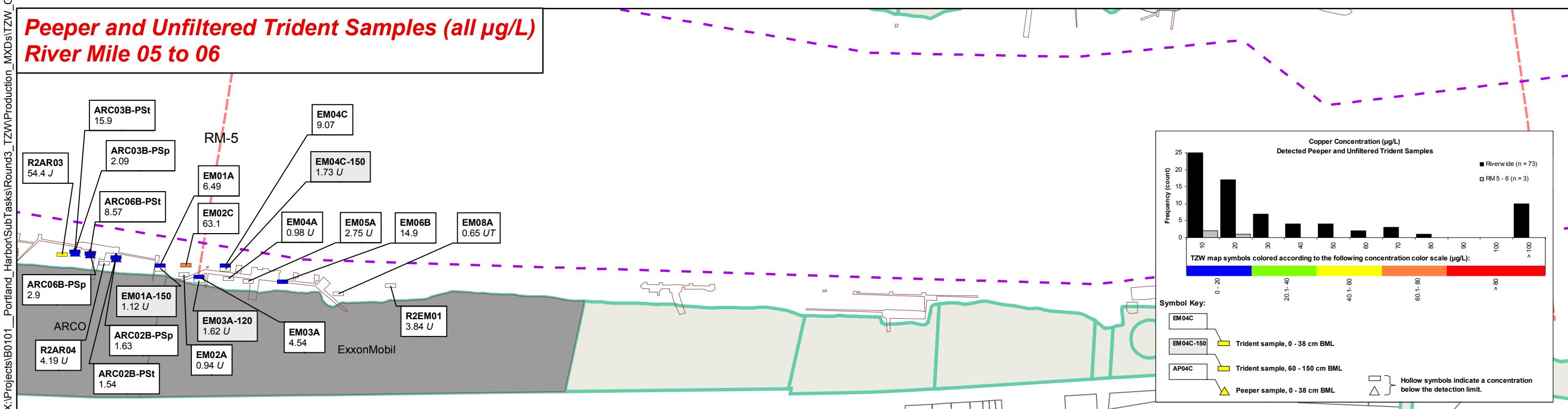
Map Features

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-5a

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Copper (µg/L)
River Mile 04 to 05



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



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 A Total value based on a limited number of analytes.

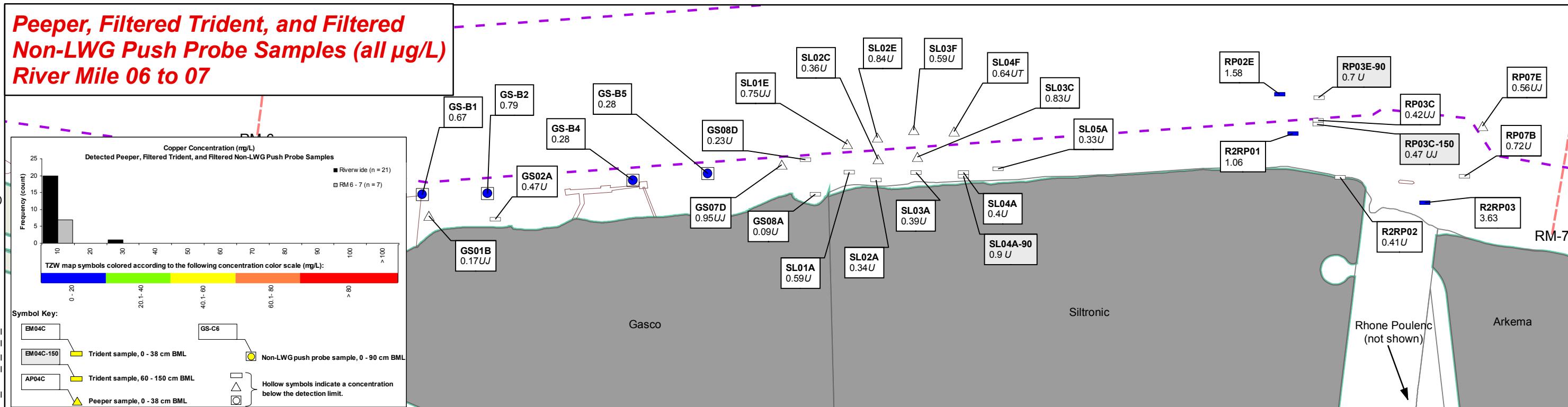
Map Features:

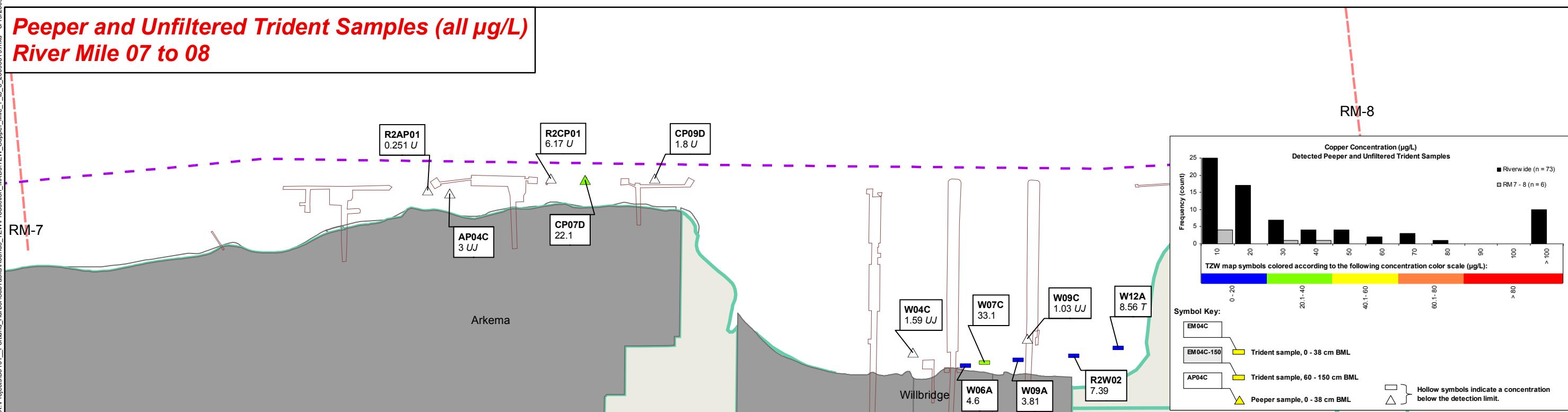
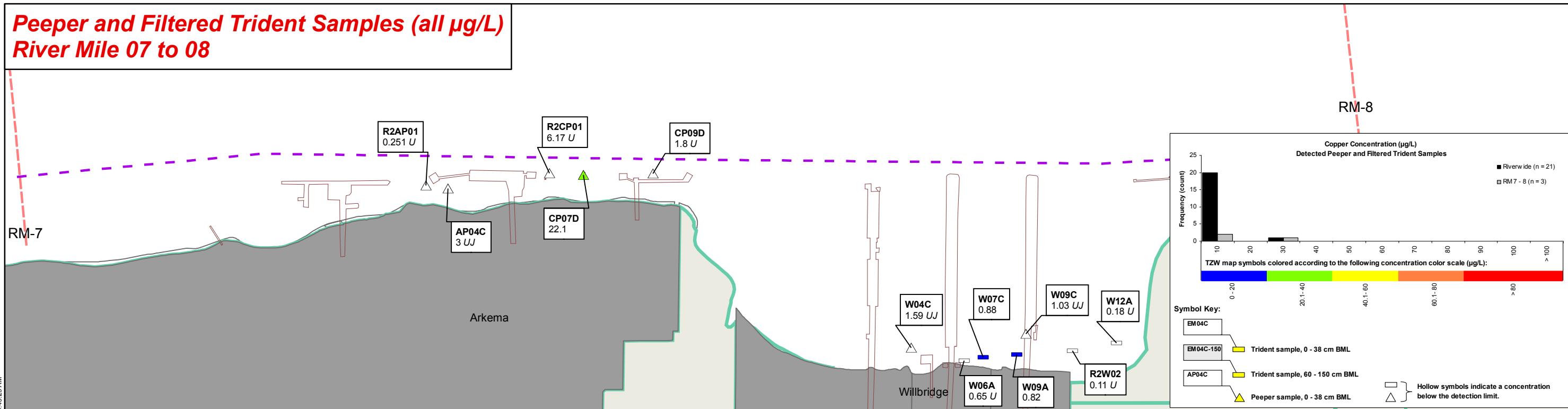
- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-5b

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Copper (µg/L)
River Mile 05 to 06





FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.

PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:

T Mathematically derived value.

J The associated numerical value was approximated by the analytical laboratory.

U The analyte was not detected above the reported sample quantitation limit.

UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.

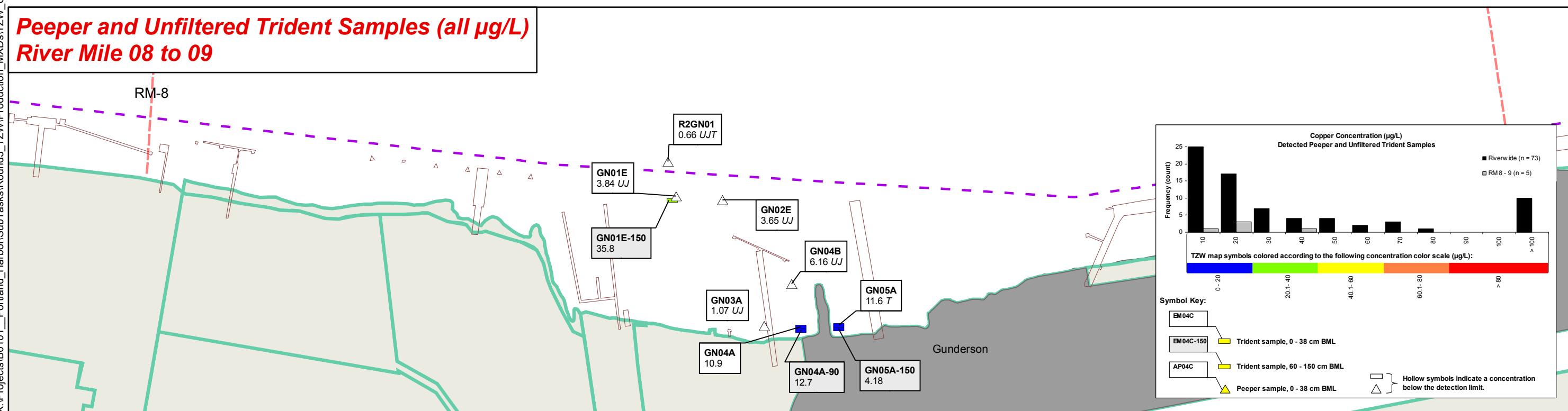
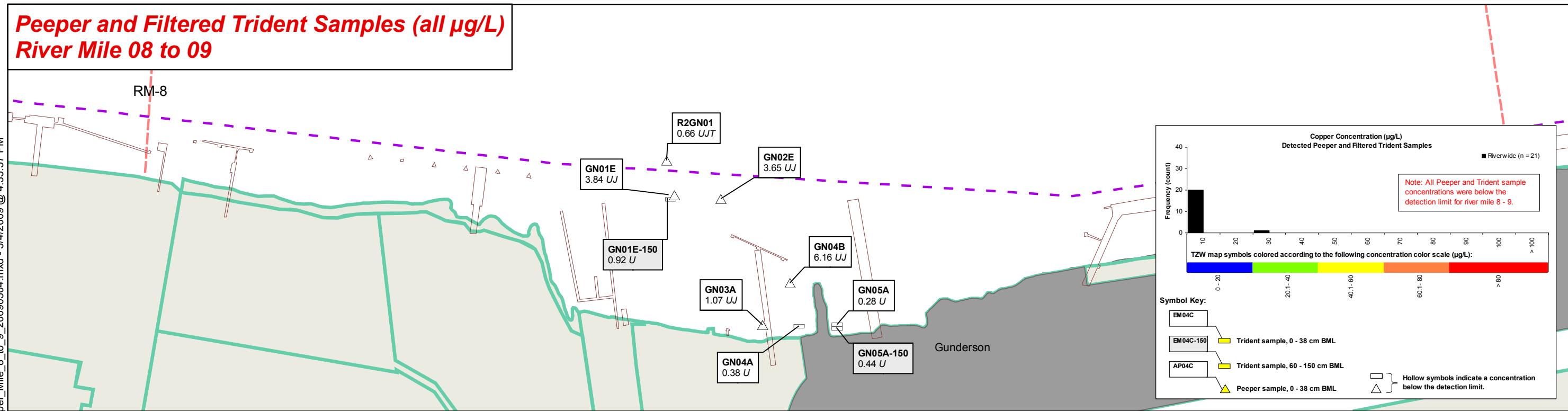
A Total value based on a limited number of analytes.

Map Features

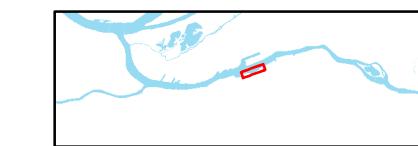
- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECII Sites (2008)
- Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-5d
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Copper ($\mu\text{g/L}$)
River Mile 07 to 08



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



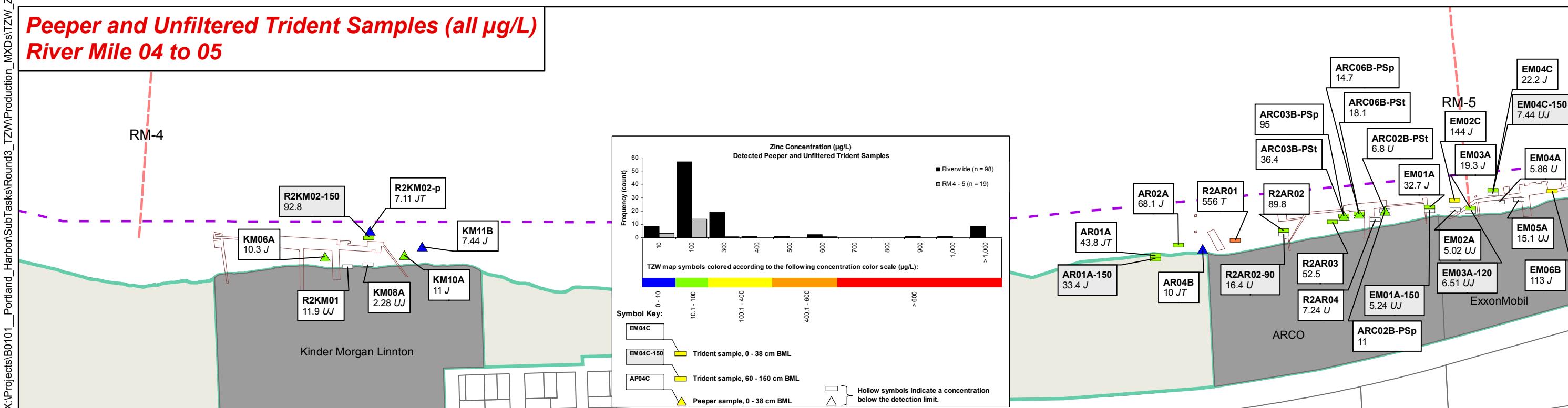
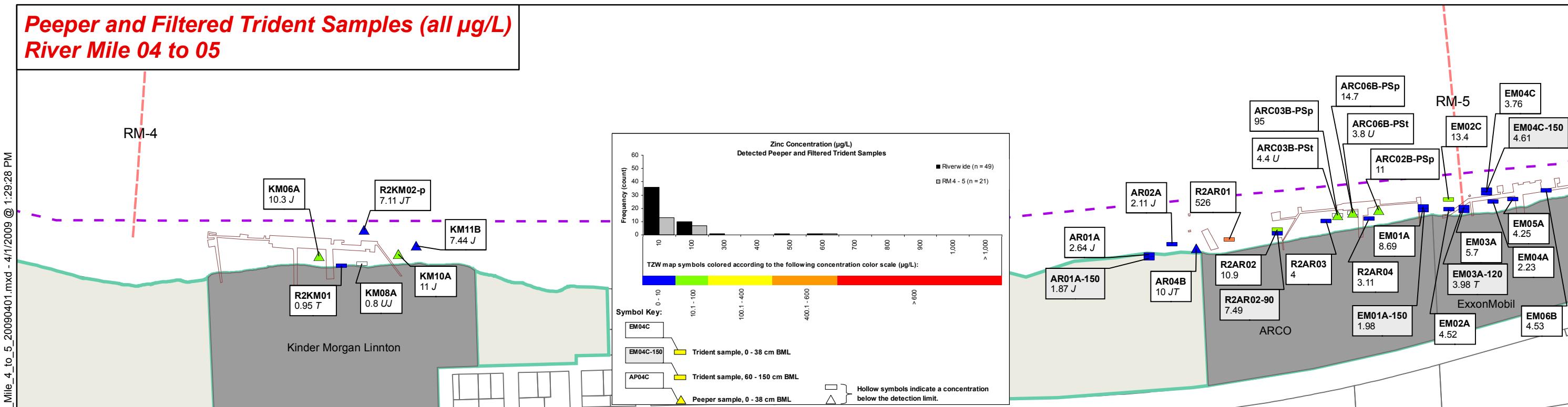
Tabular Results Notes:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

- Map Features**
- Docks and Structures
 - Navigation Channel
 - River Miles
 - GWPA Study Site
 - Upland ECSI Sites (2008)
 - Waterfront Taxlots

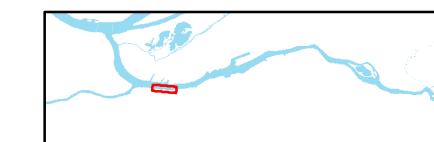
0 250 500 750 1,000 Feet

Map 5.5-5e

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Copper (µg/L)
River Mile 08 to 09



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSP Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

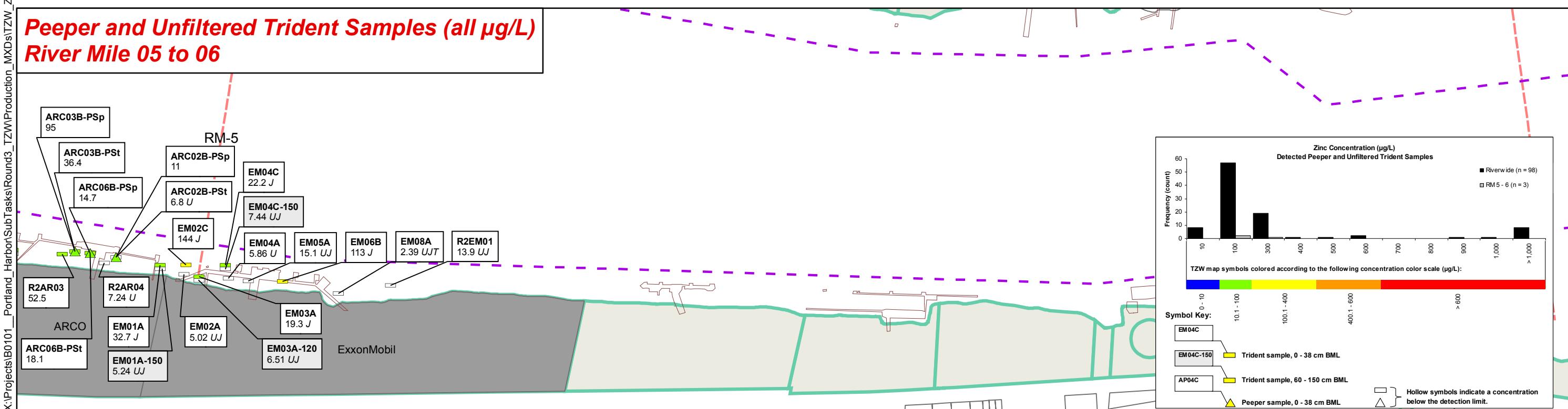
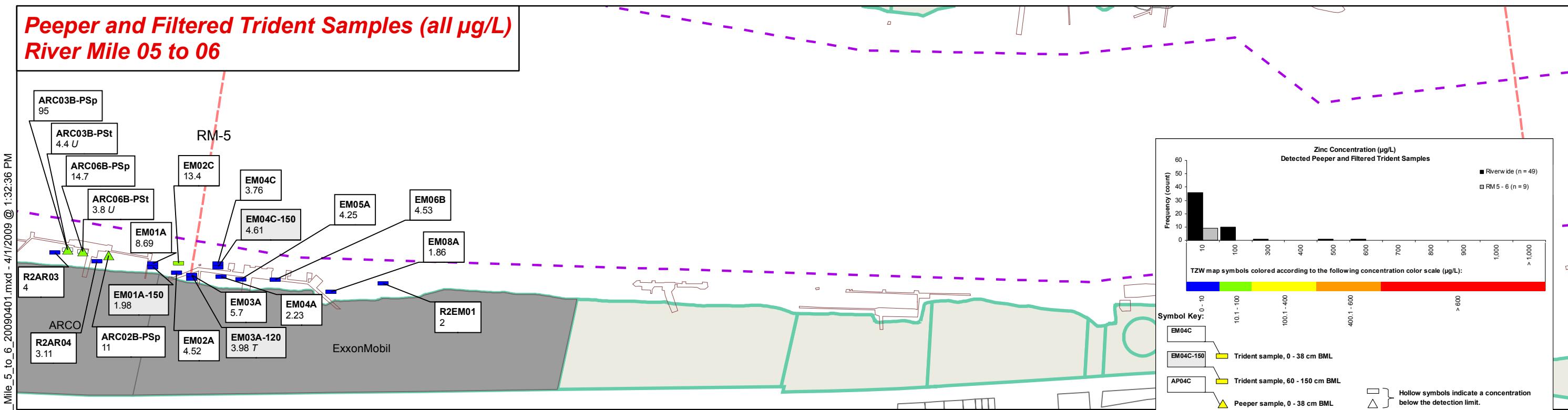
Map Features:

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

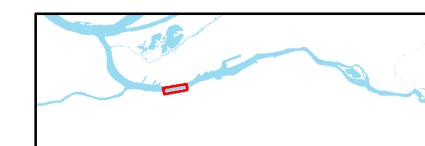
0 250 500 750 1,000 Feet

Map 5.5-6a

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Zinc (µg/L)
River Mile 04 to 05



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

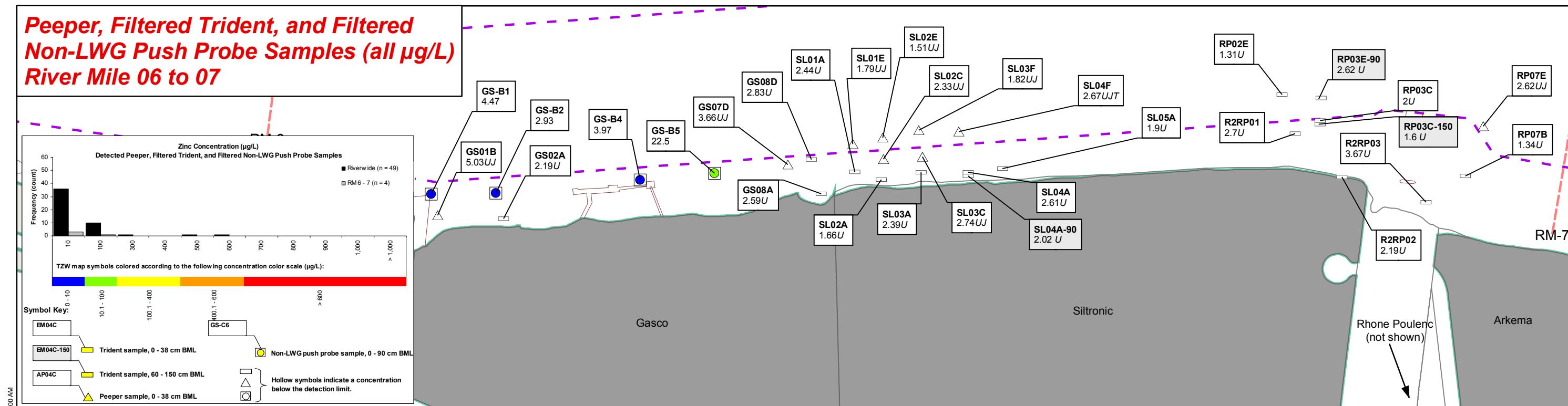
Map Features

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

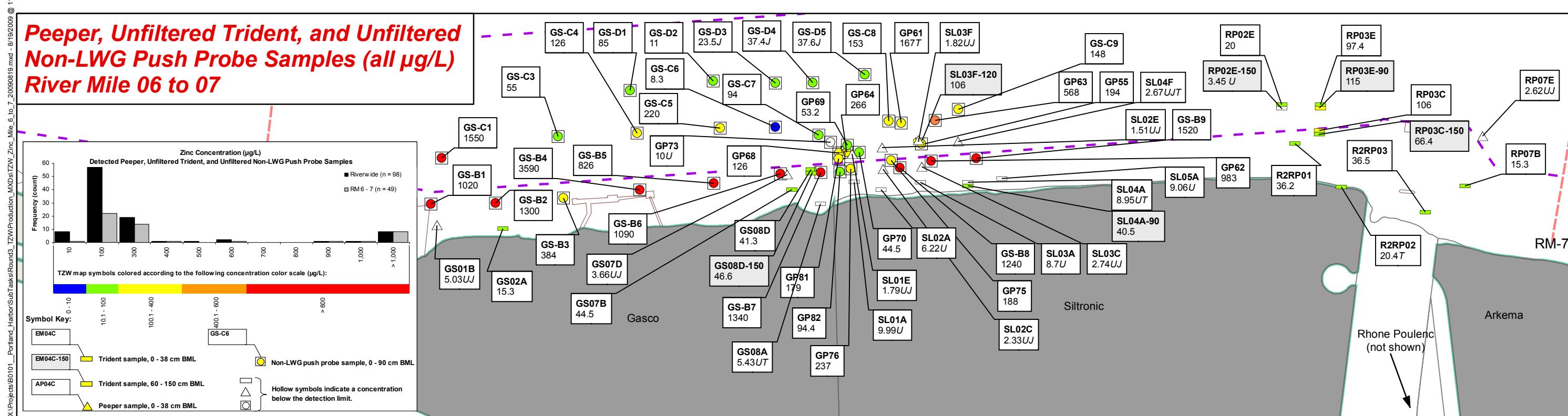
0 250 500 750 1,000 Feet

Map 5.5-6b
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Zinc (µg/L)
River Mile 05 to 06

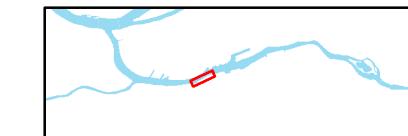
Peeker, Filtered Trident, and Filtered Non-LWG Push Probe Samples (all µg/L) River Mile 06 to 07



**Peeker, Unfiltered Trident, and Unfiltered Non-LWG Push Probe Samples (all µg/L)
River Mile 06 to 07**



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.
PSp Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:

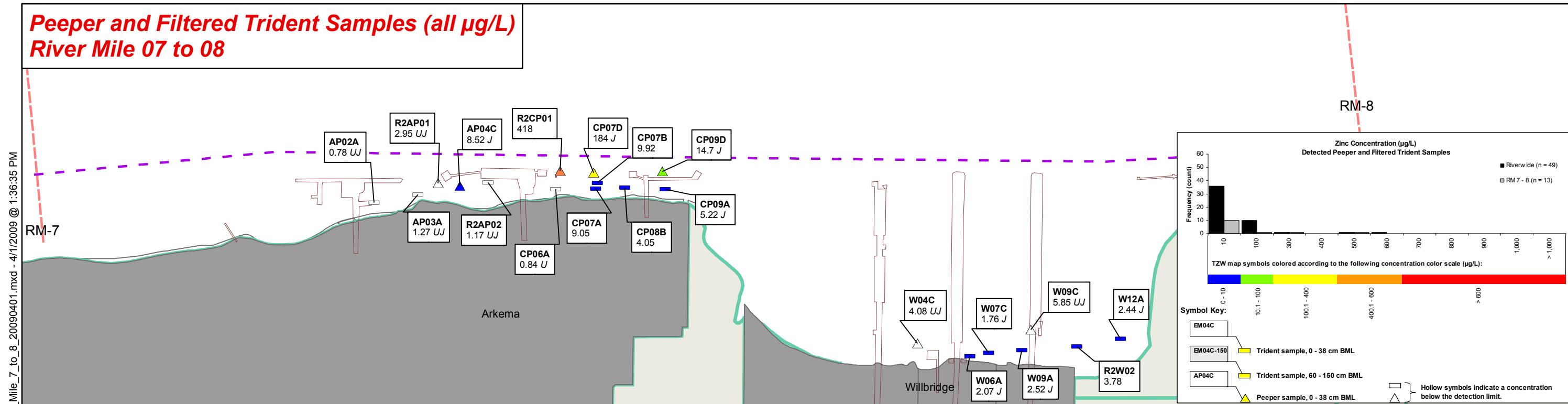
- T Mathematically derived value.
- J The associated numerical value was approximated by the analytical laboratory.
- U The analyte was not detected above the reported sample quantitation limit.
- UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
- A Total value based on a limited number of analytes

- Docks and Structures
- Navigation Channel
- River Miles
- GWPA Study Site
- Upland ECSI Sites (2008)
- Waterfront Taxlots

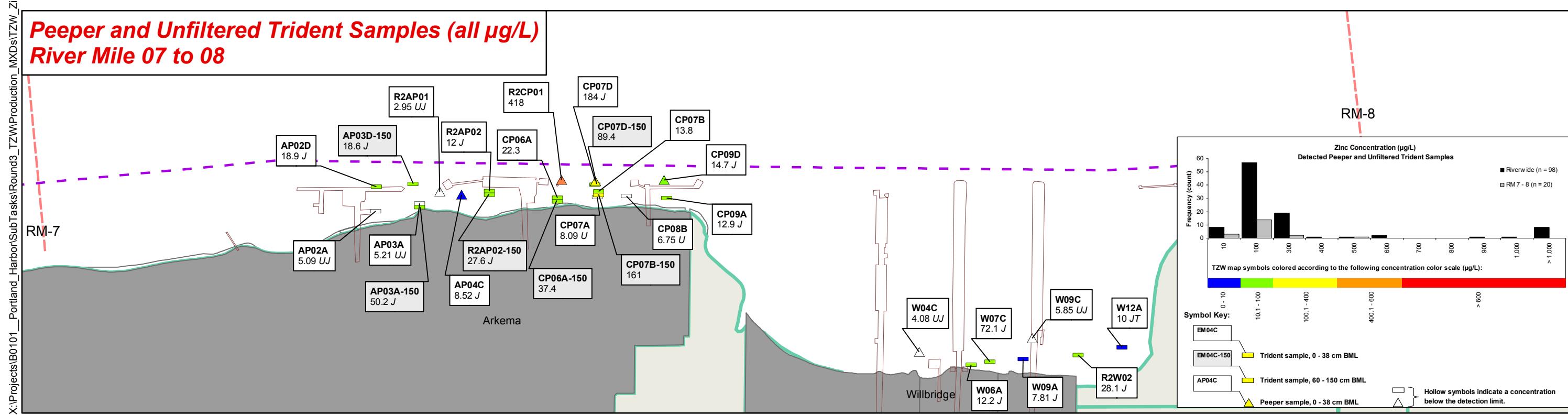
0 250 500 750 1,000 F

Map 5.5-6c
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Zinc ($\mu\text{g}/\text{L}$)
River Mile 06 to 07

Peeker and Filtered Trident Samples (all µg/L) River Mile 07 to 08



Peeker and Unfiltered Trident Samples (all µg/L, River Mile 07 to 08



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers
Docks & In-water Structures: digitized from Octo-
ber 2001 0.33 ft. resolution color orthophotos



PSt Indicates sample collected during the GWPA Pilot Study by Trident sampler.

PSP Indicates sample collected during the GWPA Pilot Study by small-volume peeper.

Qualifiers:

T Mathematically derived value.

J The associated numerical value was approximated by the analytical laboratory.

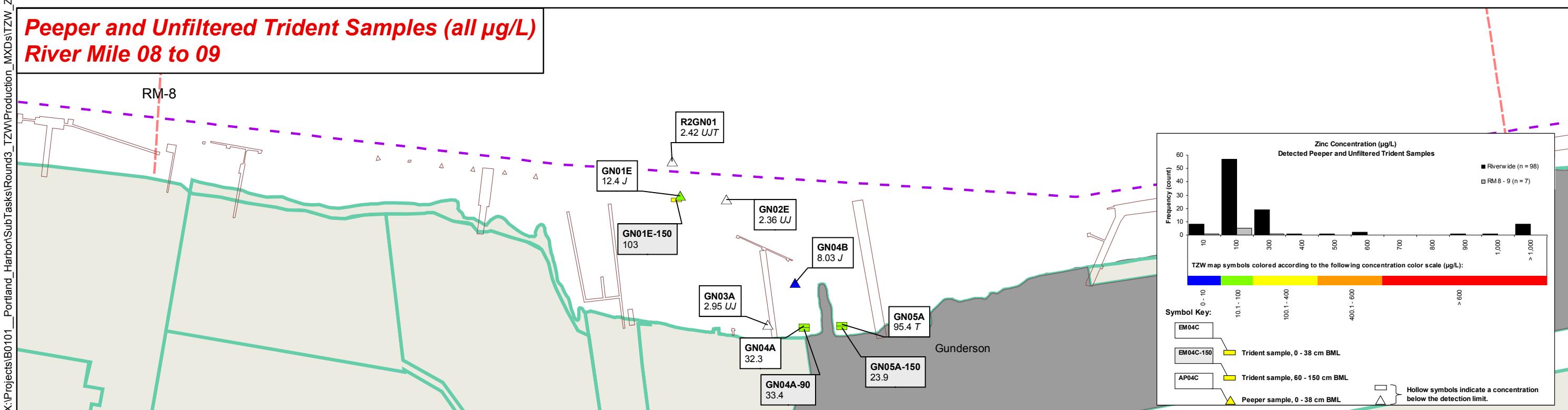
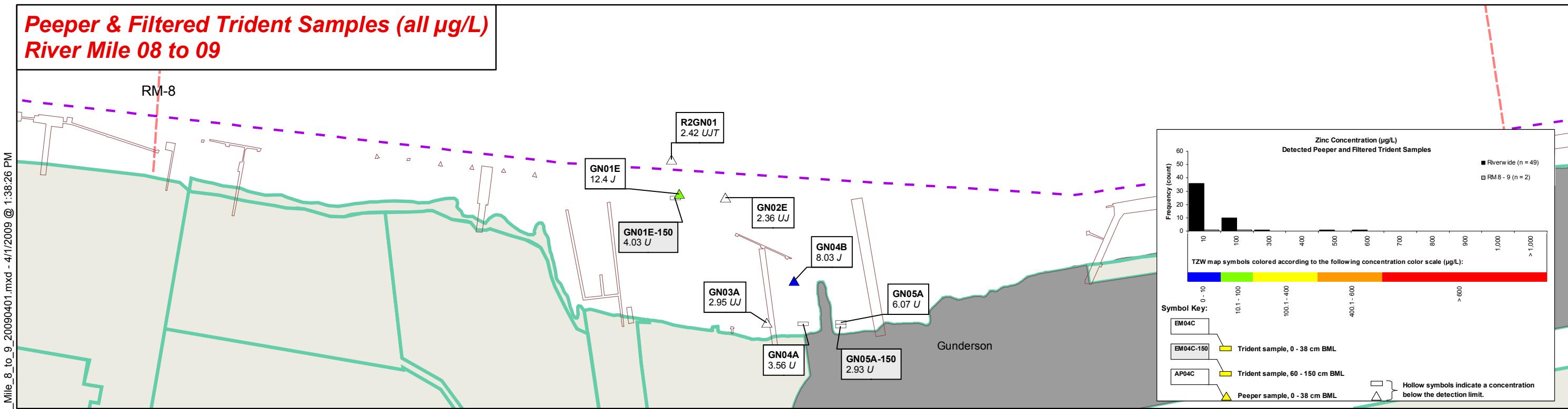
U The analyte was not detected above the reported sample quantitation limit.
U The analyte was not detected above the reported sample quantitation limit; however,

UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.

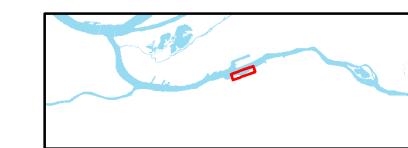
A Total value based on a limited number of analytes.

^a Total value based on a limited number of analyses.

Map 5.5-6d
Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Zinc ($\mu\text{g/L}$)
River Mile 07 to 08



FEATURE SOURCES:
Property and Taxlot Boundaries: Metro RLIS
Channel & River miles: US Army Corps of Engineers.
Docks & In-water Structures: digitized from October 2001 0.33 ft. resolution color orthophotos



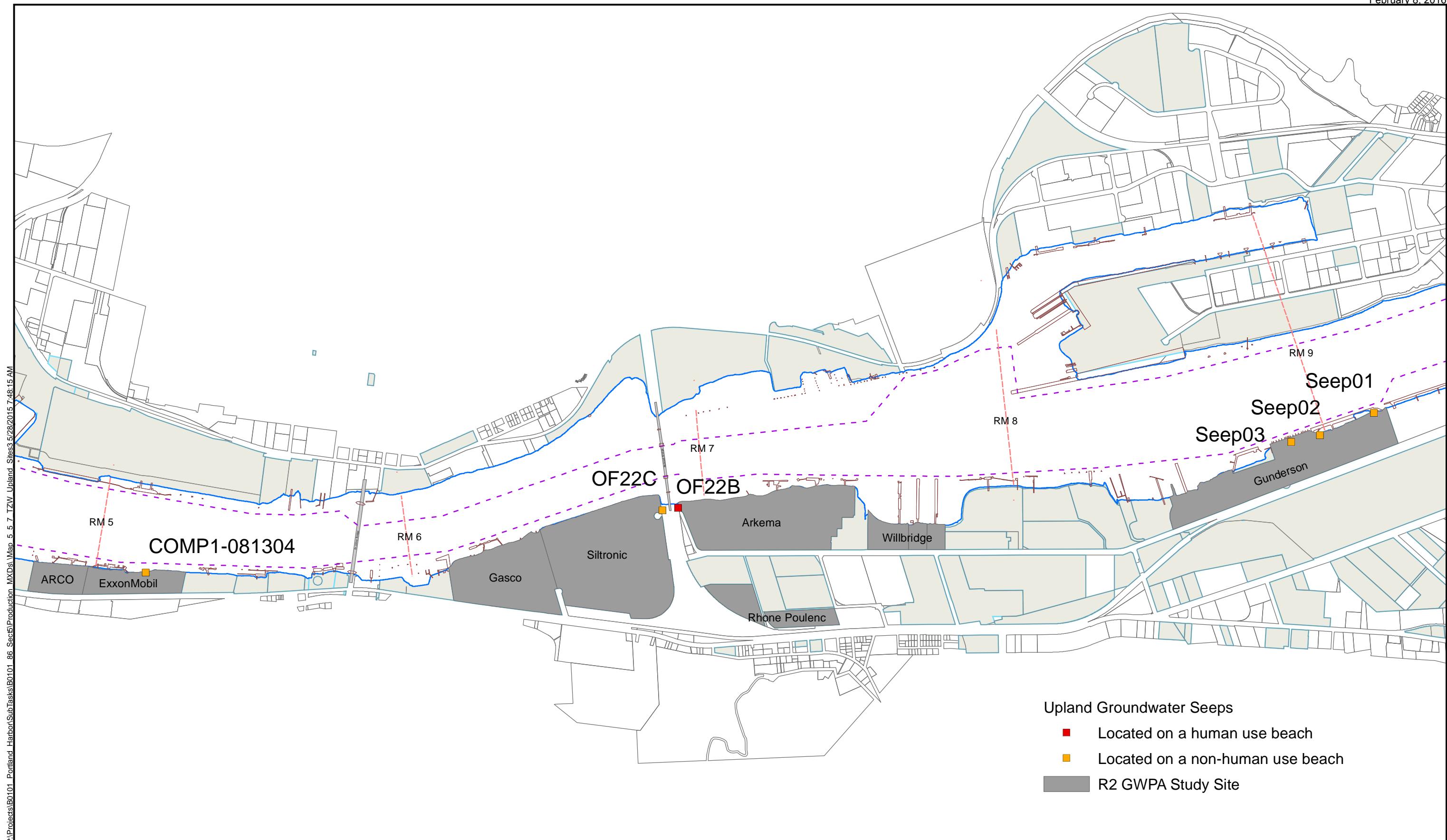
Tabular Results Notes:
T Mathematically derived value.
J The associated numerical value was approximated by the analytical laboratory.
U The analyte was not detected above the reported sample quantitation limit.
UJ The analyte was not detected above the reported sample quantitation limit; however, the reported quantitation limit was approximated by the analytical laboratory.
A Total value based on a limited number of analytes.

- Map Features**
- Docks and Structures
 - Navigation Channel
 - River Miles
 - GWPA Study Site
 - Upland ECSI Sites (2008)
 - Waterfront Taxlots

0 250 500 750 1,000 Feet

Map 5.5-6e

Portland Harbor RI/FS
Remedial Investigation Report
Transition Zone Water Chemistry
Zinc (µg/L)
River Mile 08 to 09



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS .
Channel & River miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

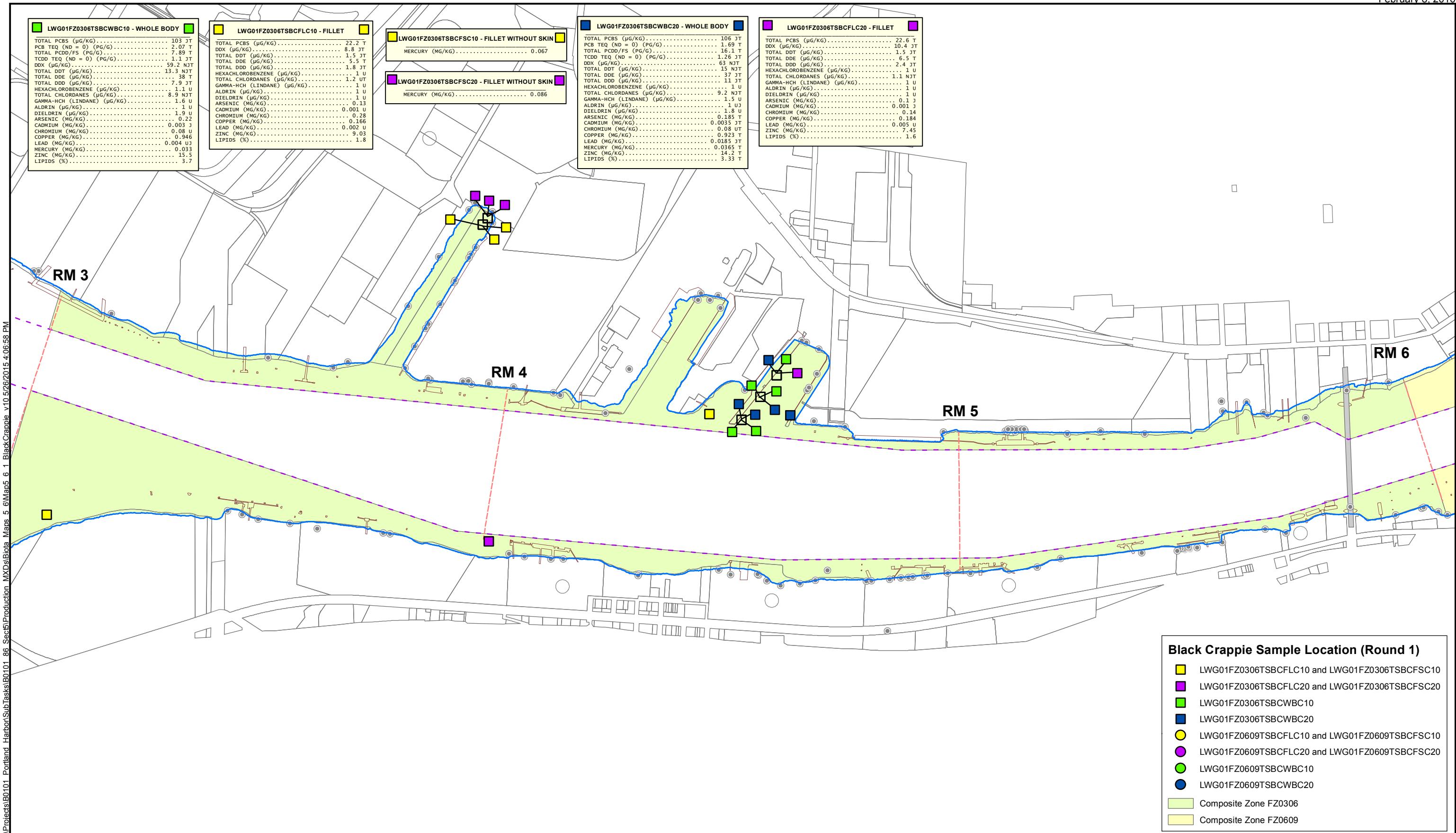
0 1,000 2,000 3,000 4,000 5,000 Feet

Map Features

- | | |
|------------------------|----------------------------|
| ■ Docks and Structures | ■ Upland ECSI Sites (2008) |
| ■ Bridges | ■ Waterfront Taxlots |
| — River Miles | ■ River Edge +13 ft NAVD |
| ■ Navigation Channel | |

Map 5.5-7

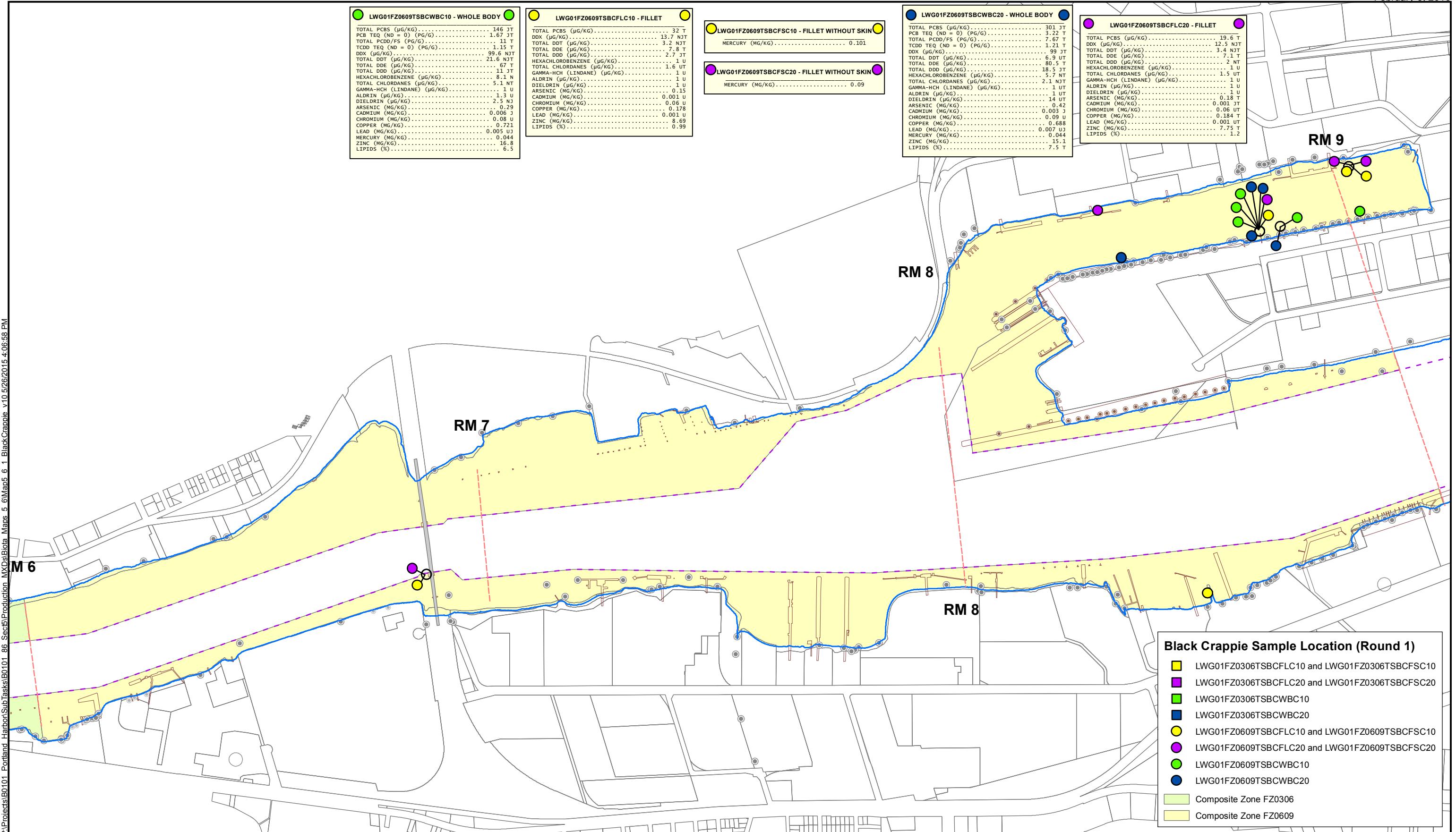
Portland Harbor RI/FS
Remedial Investigation Report
Groundwater Seep Sampling Locations



0 500 1,000 2,000 Feet

Map Features

- | | | |
|--------------------|------------|----------------------|
| River Miles | Outfalls | Bridges |
| Navigation Channel | Outfall | Docks and Structures |
| | Dock Drain | Waterfront Taxlots |
| | Roof Drain | |



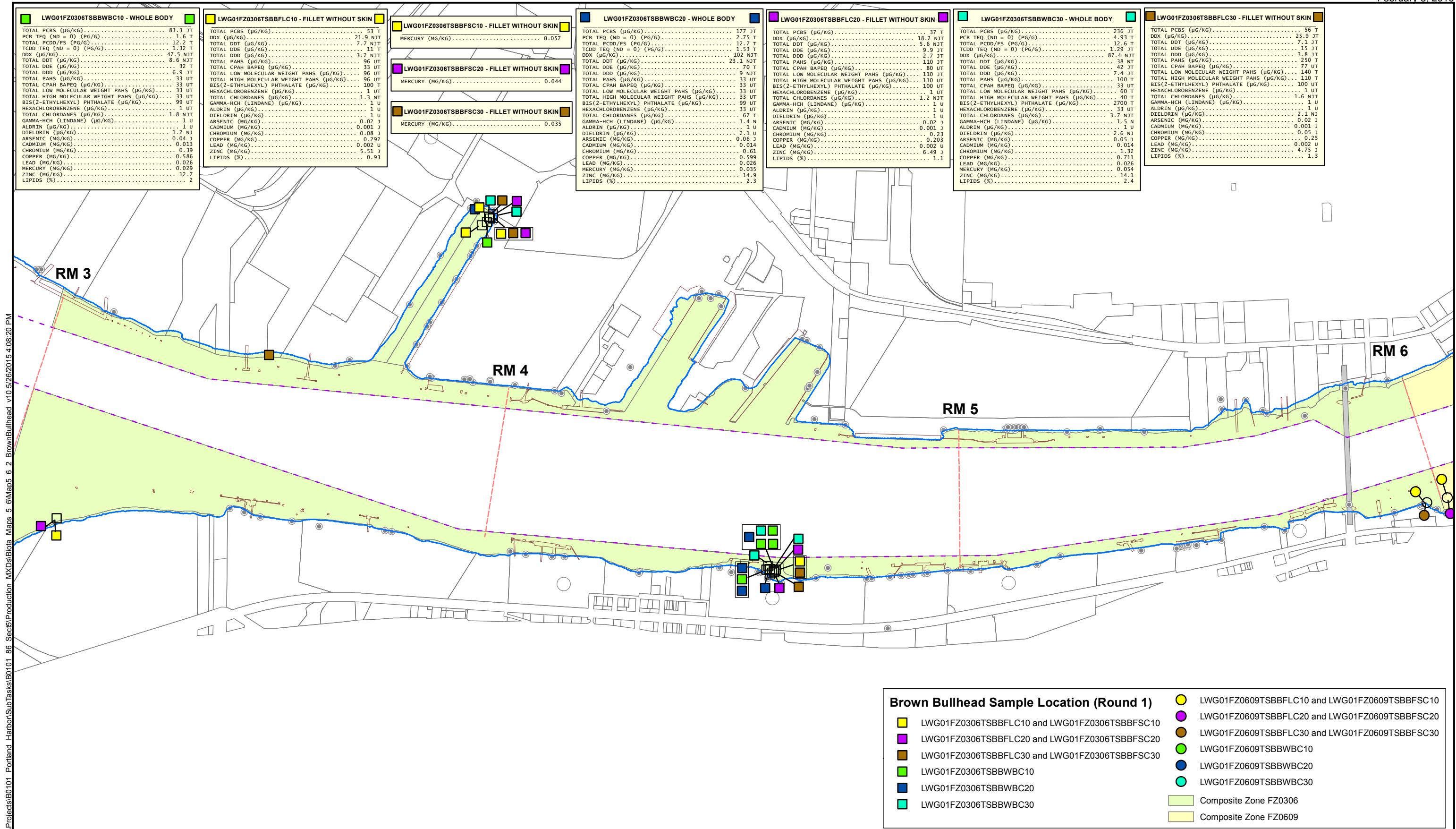
Map Features

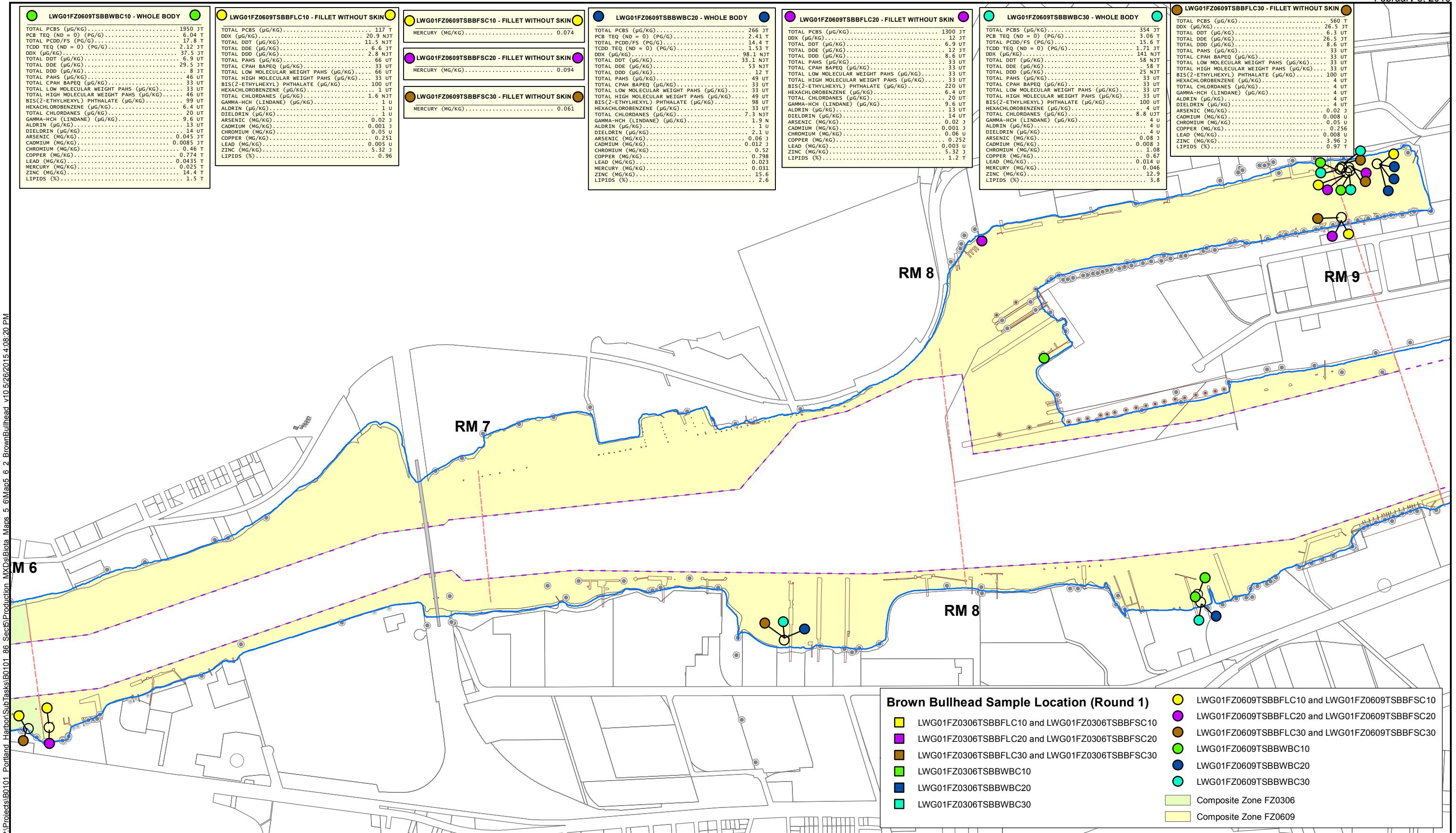
- River Miles
- Navigation Channel
- Outfalls
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Waterfront Taxlots

0 500 1,000 2,000 Feet

Map 5.6-1b

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Black Crappie
RM 6 to 9





FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

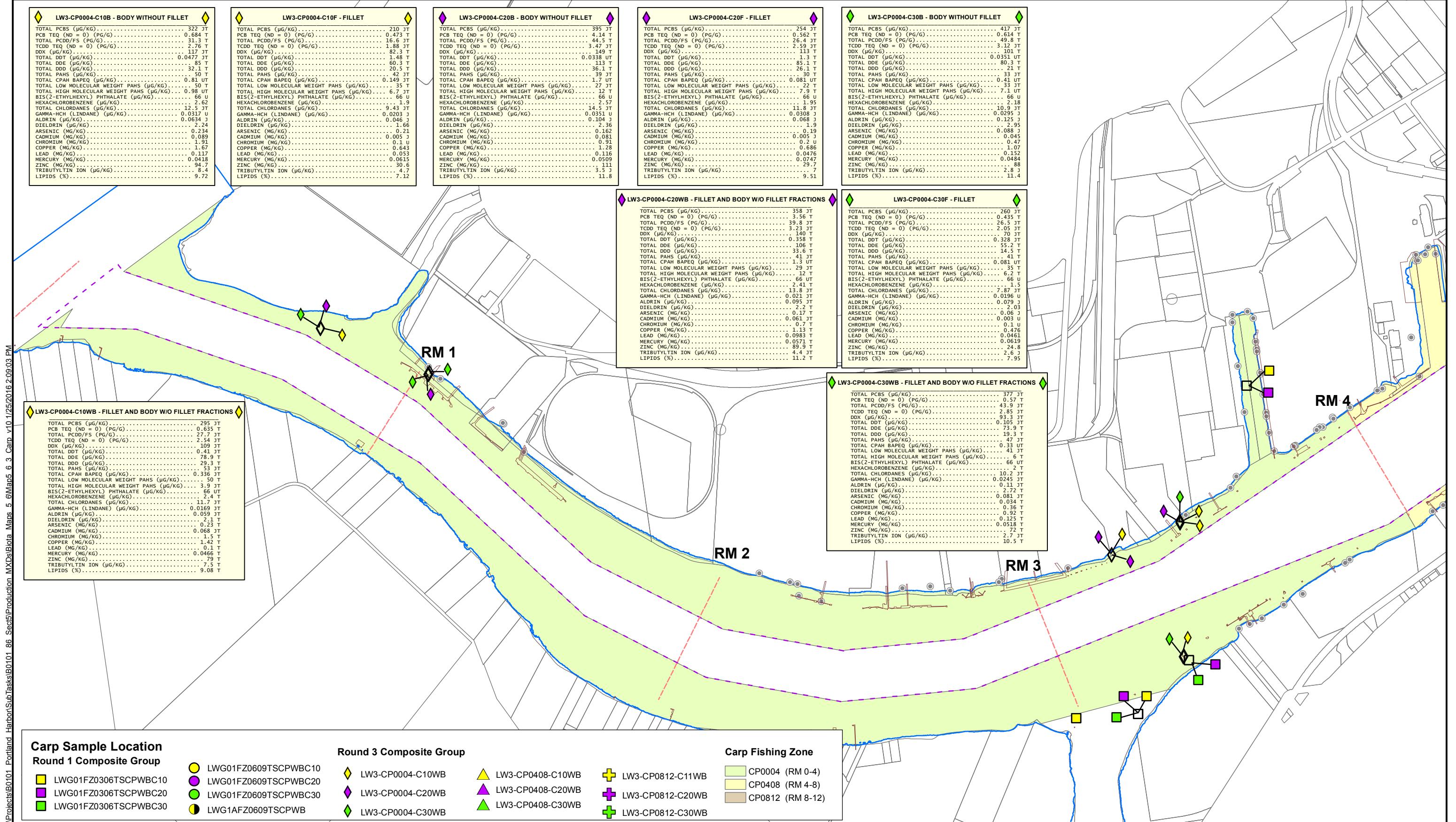
0 500 1,000 2,000 Feet

Map Features

- River Miles
- Navigation Channel
- Outfalls
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Waterfront Taxlots

Map 5.6-2b

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Brown Bullhead



0 500 1,000 2,000 Feet

Map Features

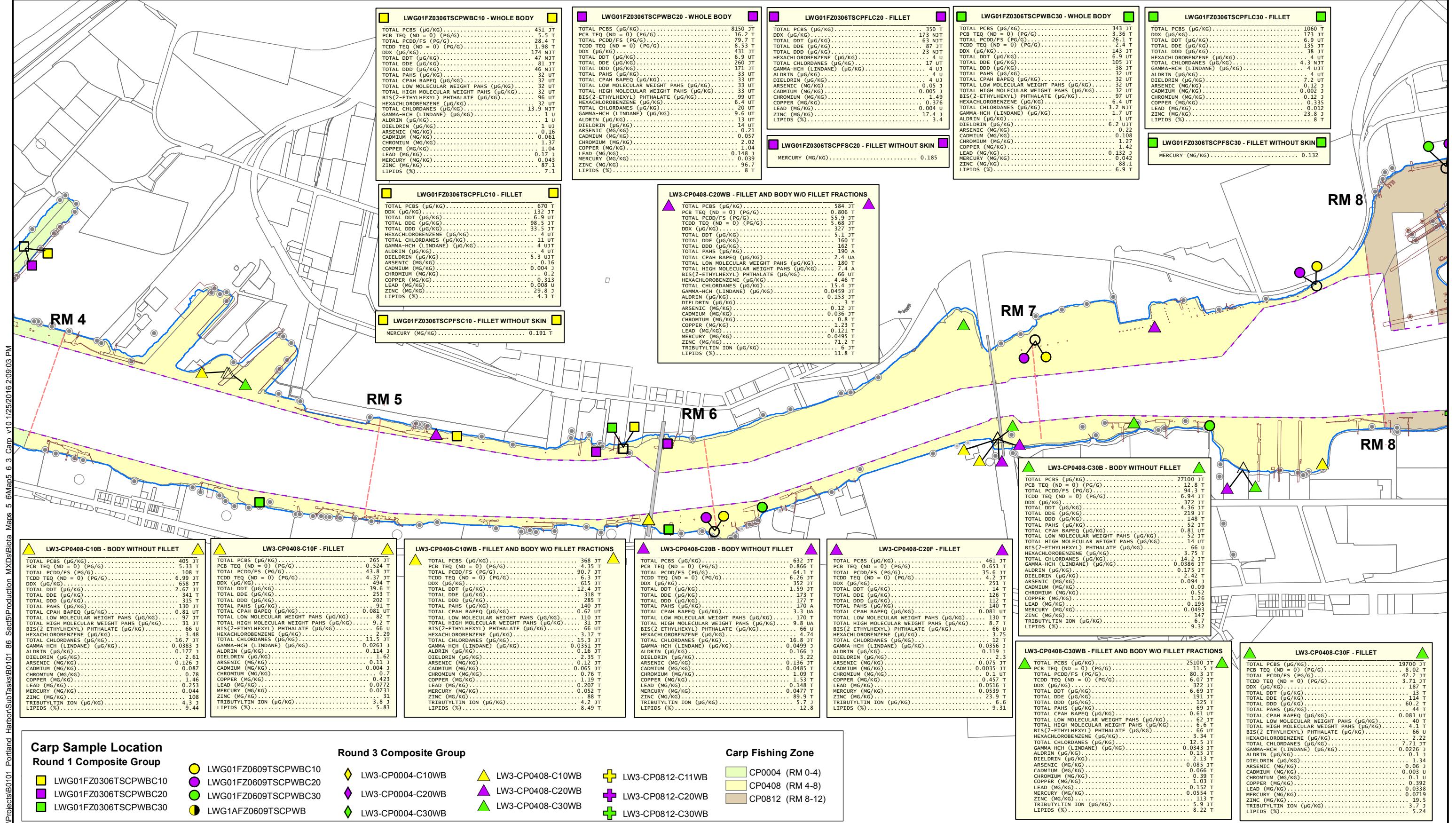
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD

- Outfalls
- Outfall
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Waterfront Taxlots

Map 5.6-3a

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Carp

RM 0 to 4



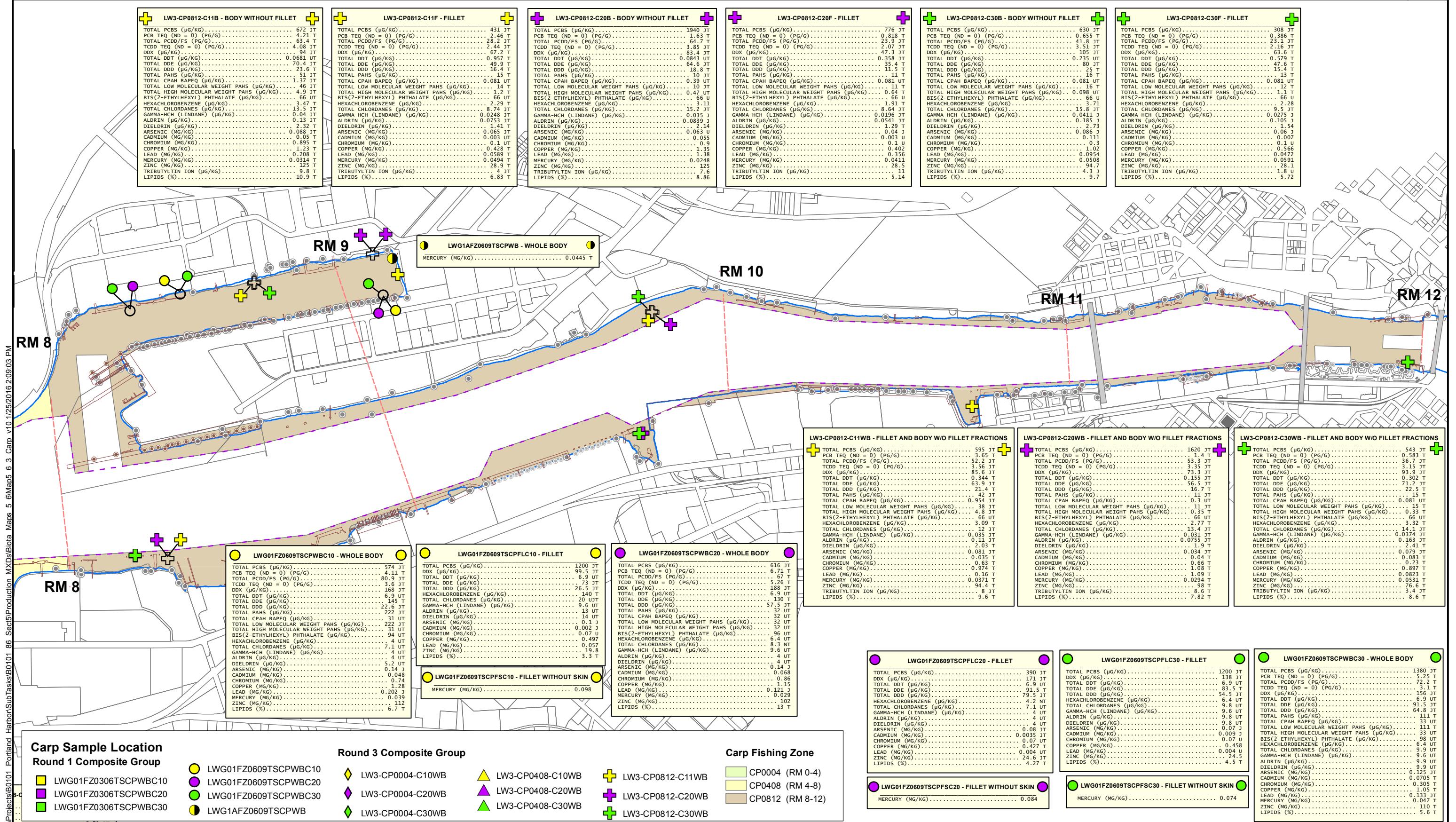
0 500 1,000 2,000 Feet

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD

- Outfalls
- Outfall
- Dock Drain
- Roof Drain

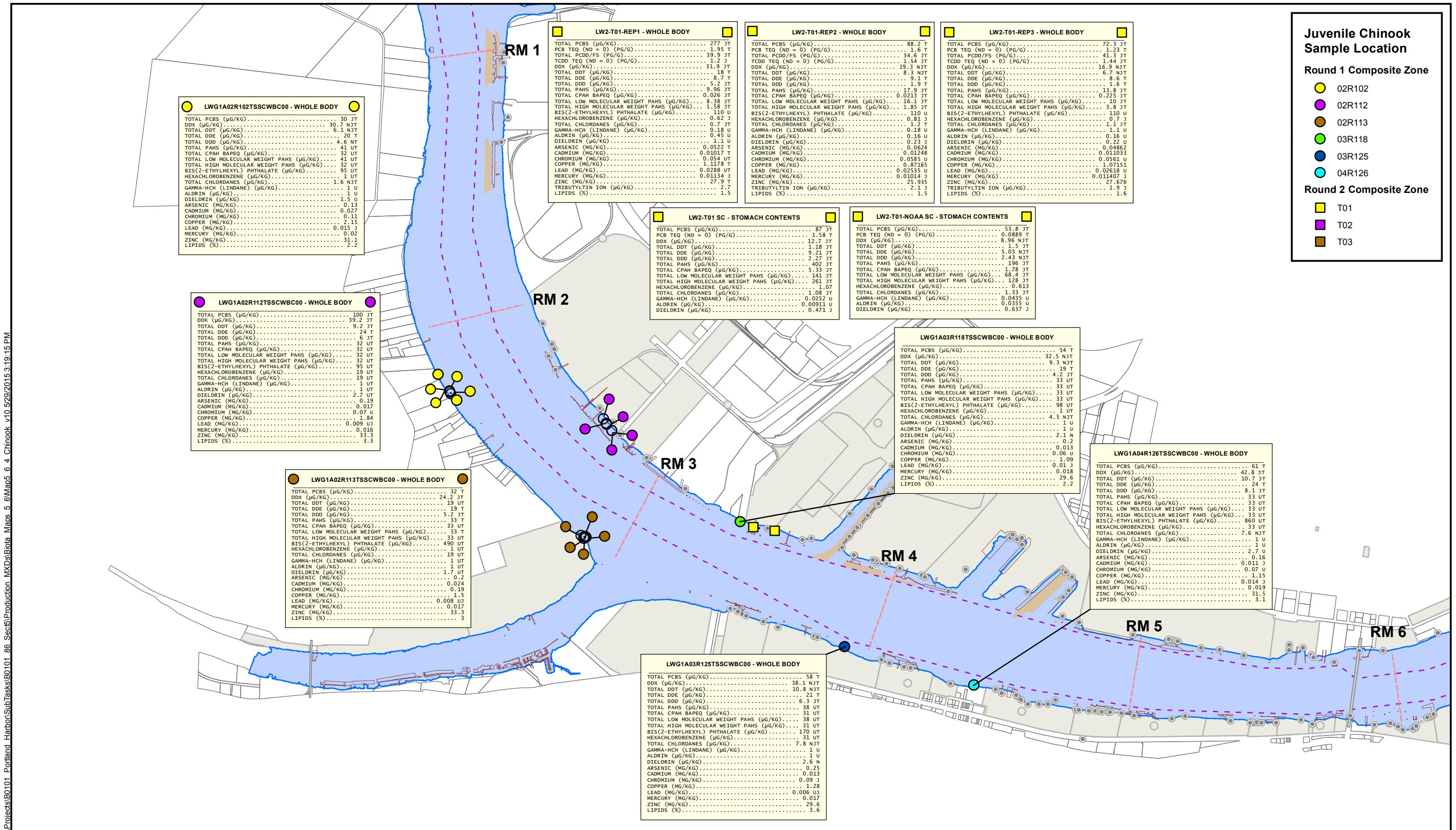
- Bridges
- Docks and Structures
- Waterfront Taxlots



Map 5.6-3c

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Carp

RM 8 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 0.125 0.25 0.5 Miles

Map Features

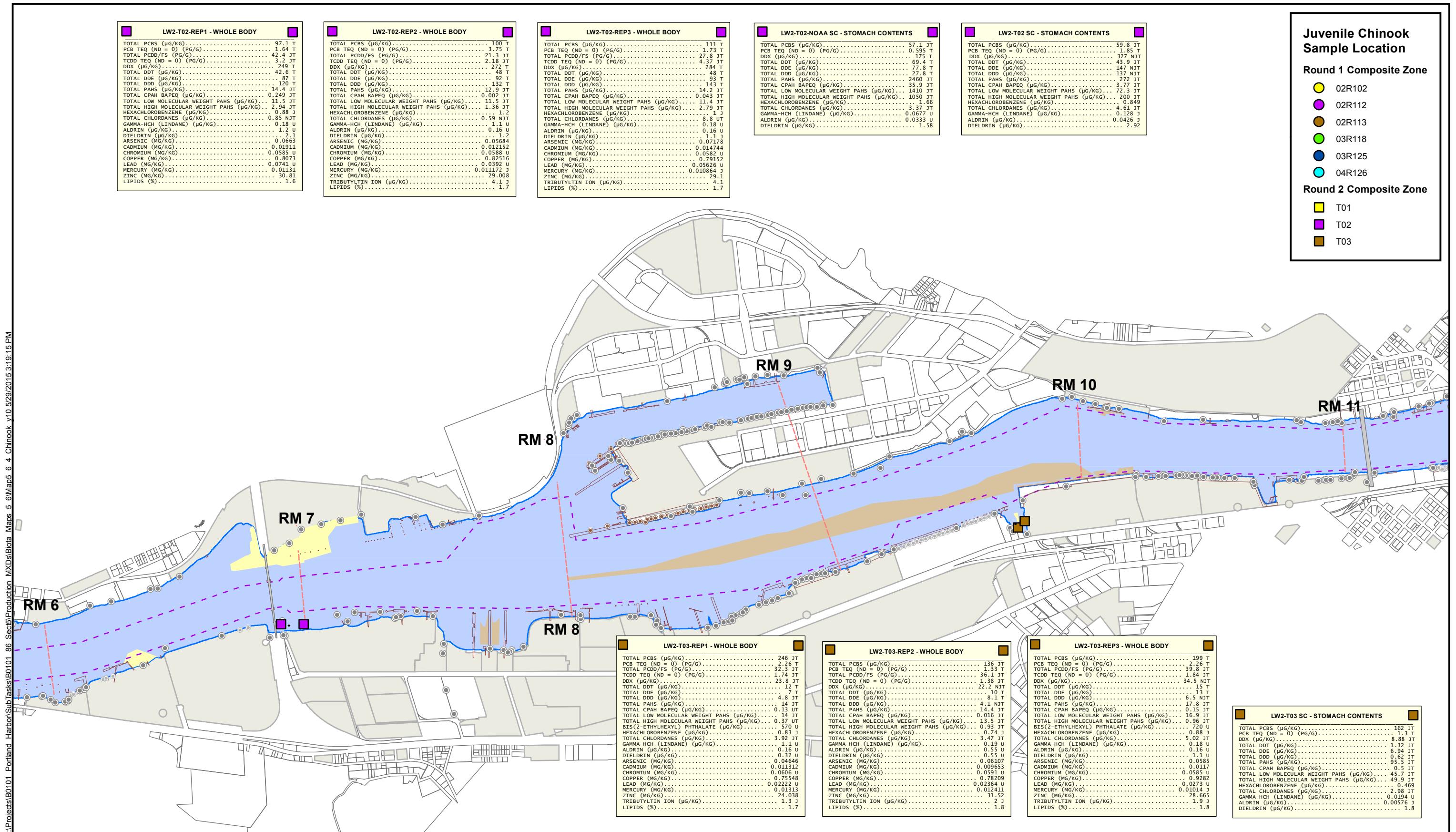
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Dock Drain
- Roof Drain

- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- Capping Areas
- Dredging Areas

Map 5.6-4a

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Juvenile Chinook

RM 2 to 6



Map 5.6-4b

Portland Harbor RI/FS
Medial Investigation Report

**Remedial Investigation Report
Toxics Chemistry by Station Location, Juvenile Chinook**

RM 6 to 10

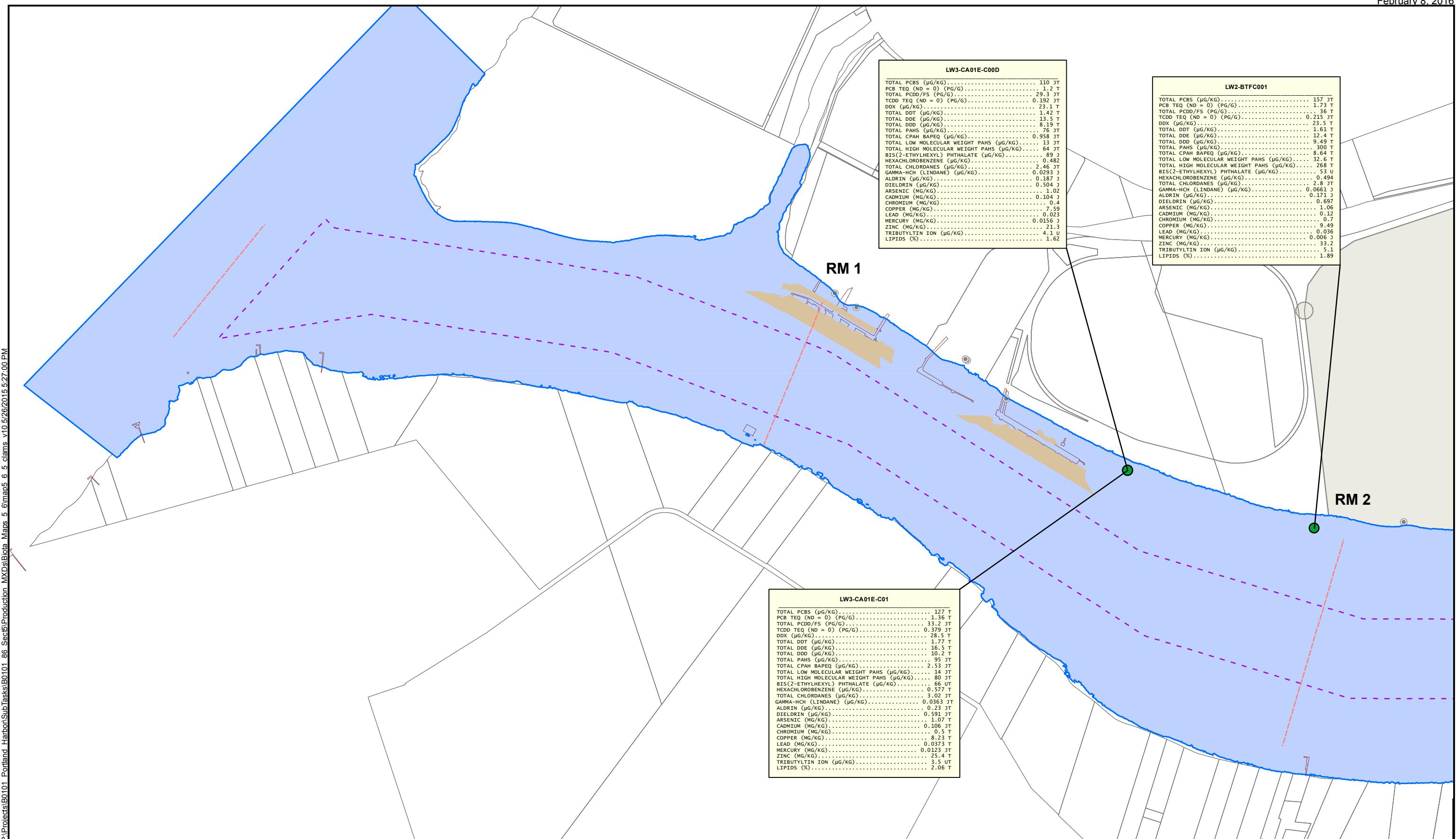
FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.

FEATURE SOURCES:
Transportation, Property, or Boundaries
Channel & River Miles: US Army Corps of Engineers
Bathymetric Information: David E. Johnson

Map Features

- Legend**

| | | | |
|------------------------|-----------------|--------------------------|----------------|
| River Miles | Outfalls | Bridges | Capping Areas |
| Navigation Channel | Outfall | Docks and Structures | Dredging Areas |
| River Edge +13 ft NAVD | Dock Drain | Upland ECSI Sites (2008) | |
| | Roof Drain | Waterfront Taxlots | |



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

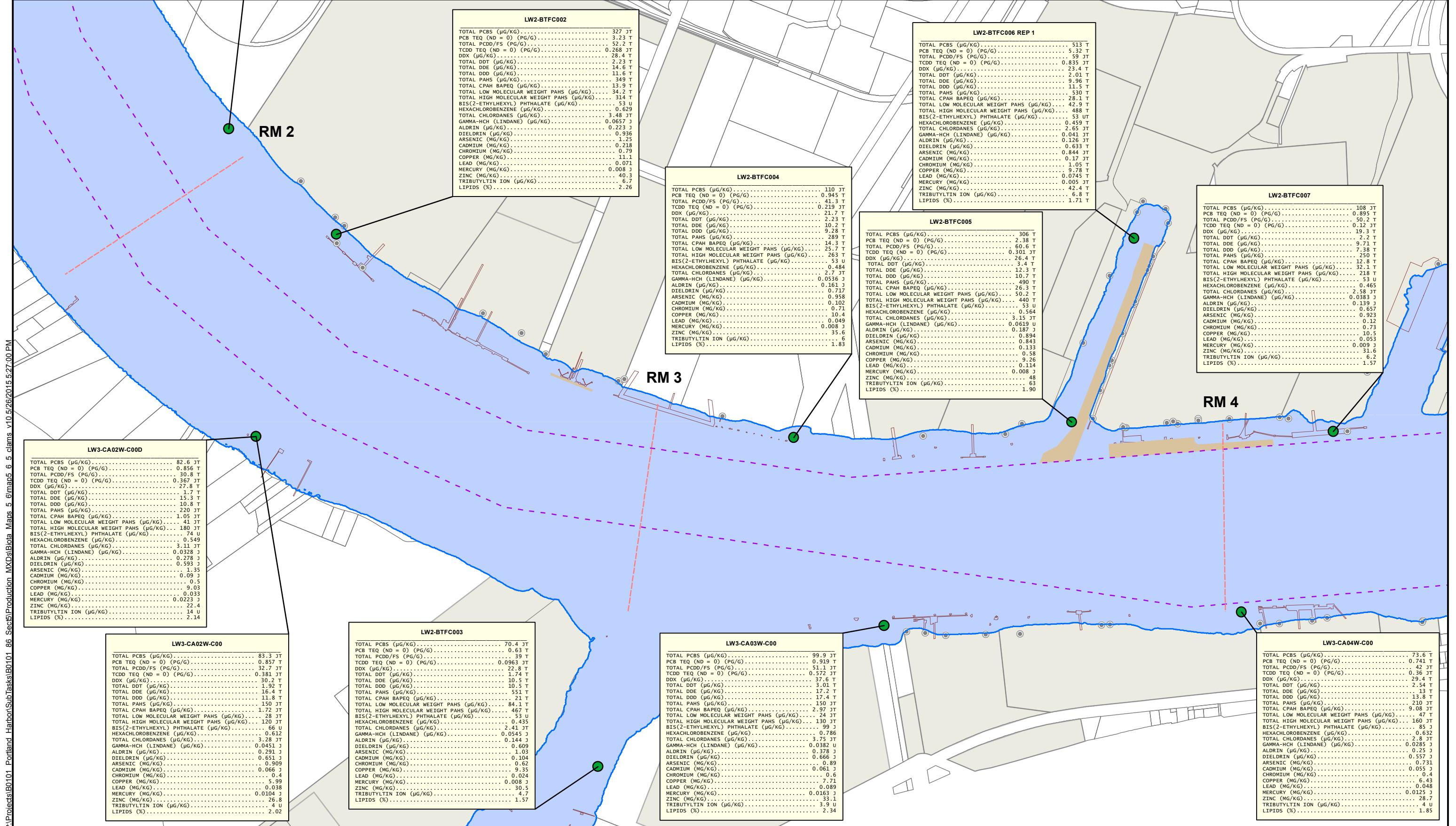
0 400 800 1,600 Feet

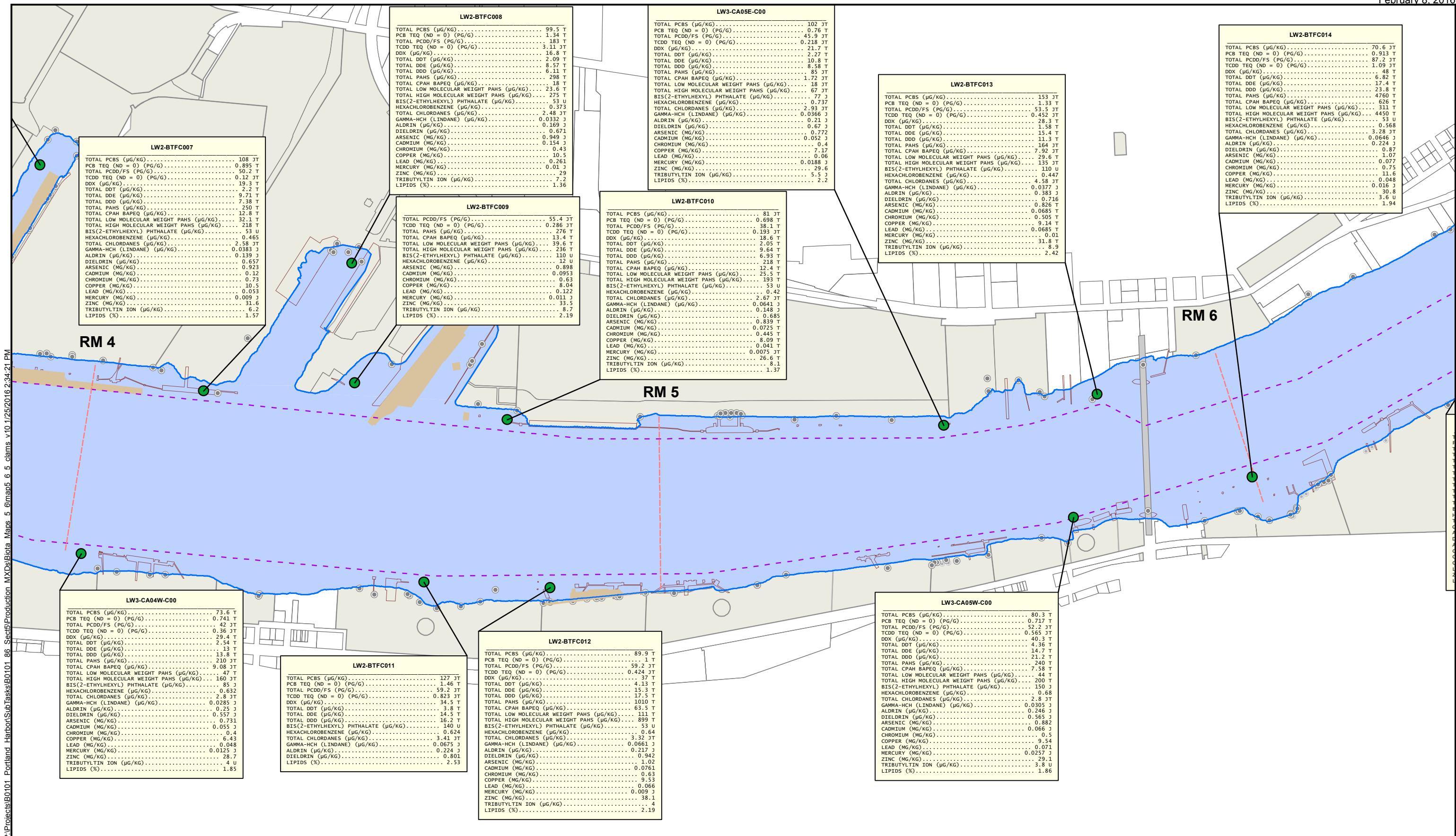
Map Features

- Clam Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Navigation Channel
- River Edge +13 ft NAVD
- Bridges
- Docks and Structures
- Dredging Areas
- Upland ECSI Sites (2008)
- Roof Drain
- Waterfront Taxlots

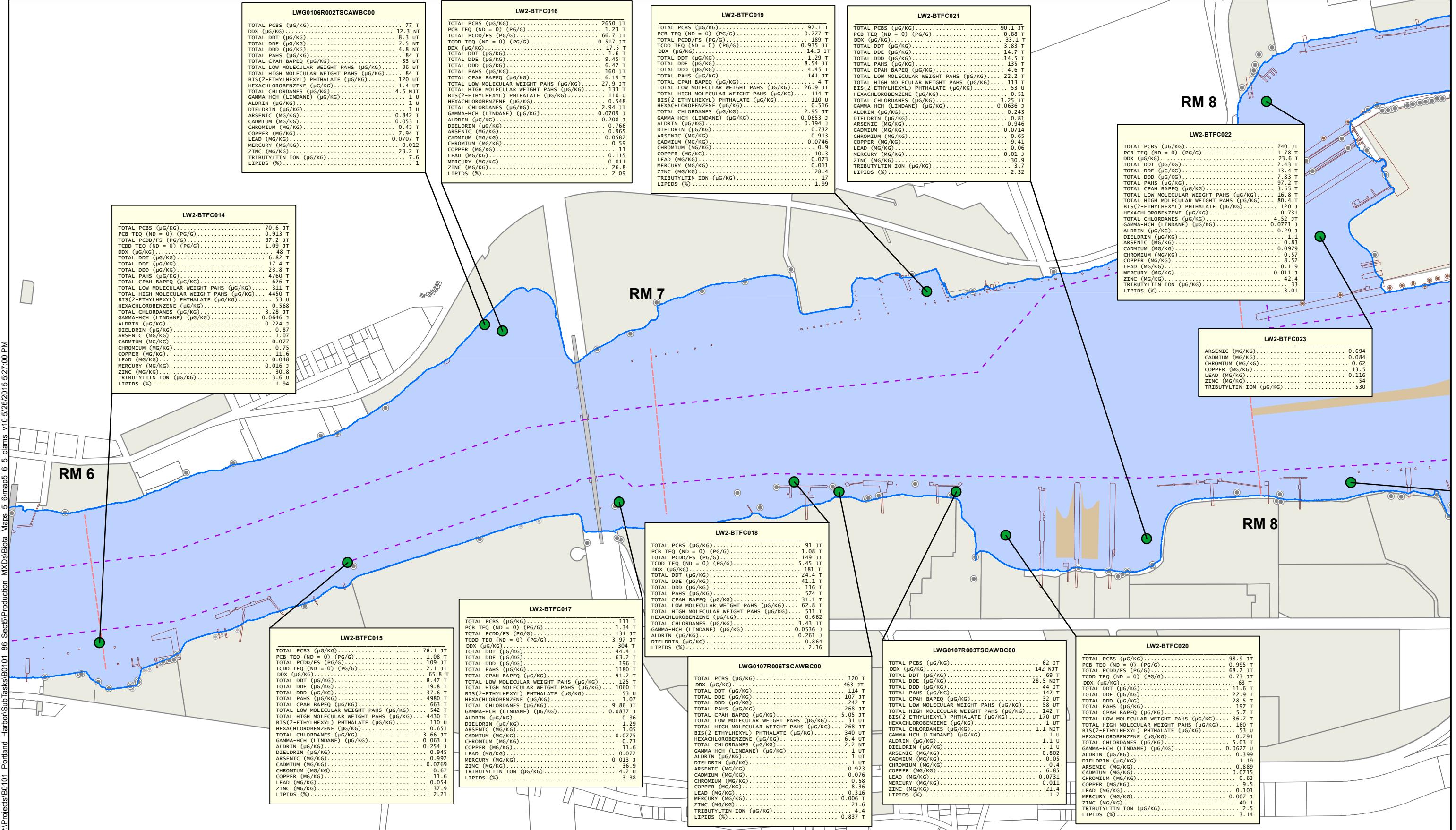
Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Clams

RM 1 to 2





Map Features



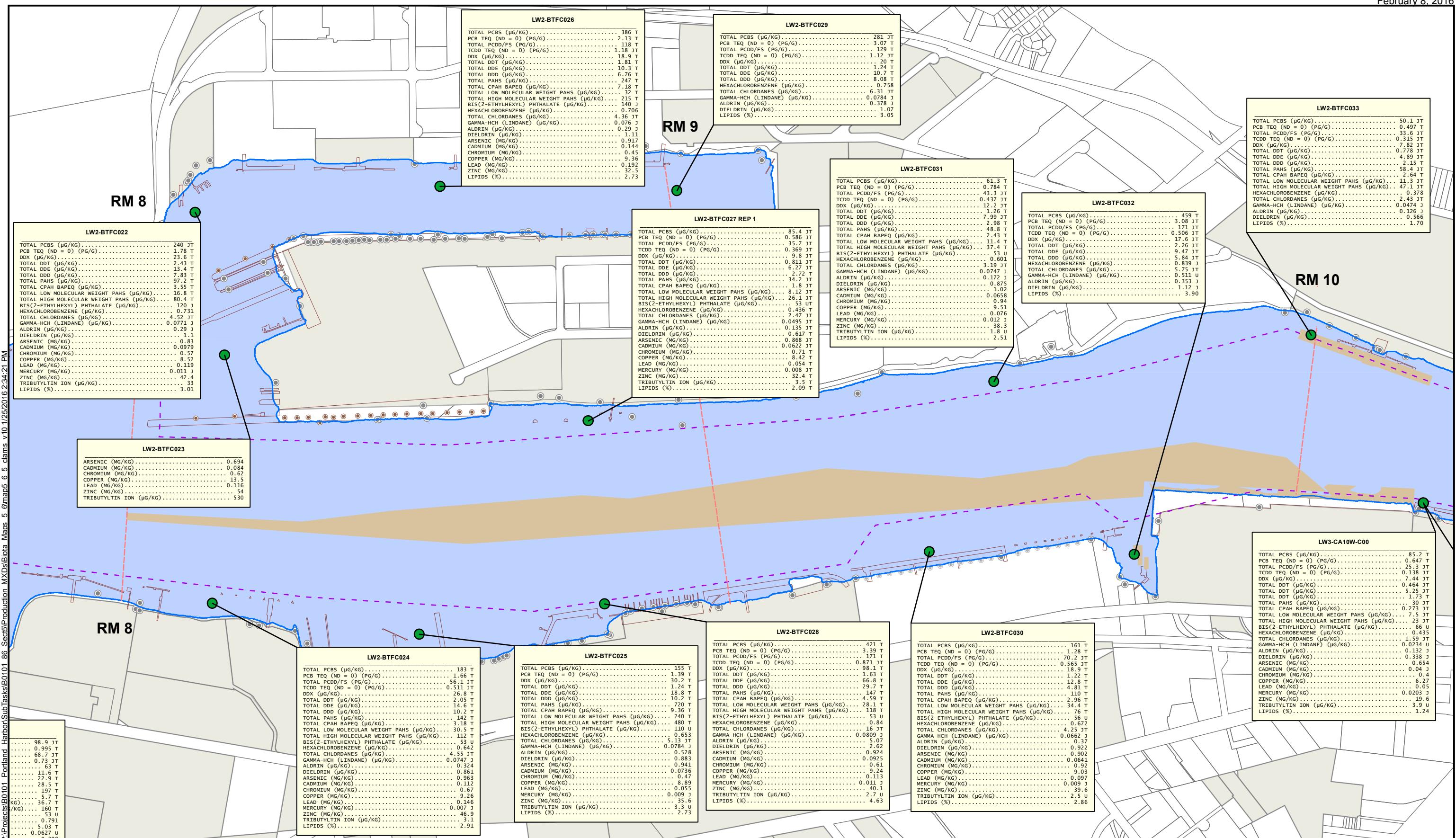
Map Features

- Clam Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Bridges
- Docks and Structures
- Capping Areas
- Dredging Areas
- Upland ECSI Sites (2008)
- Roof Drain
- Waterfront Taxlots

0 400 800 1,600 Feet

Map 5.6-5d

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Clams

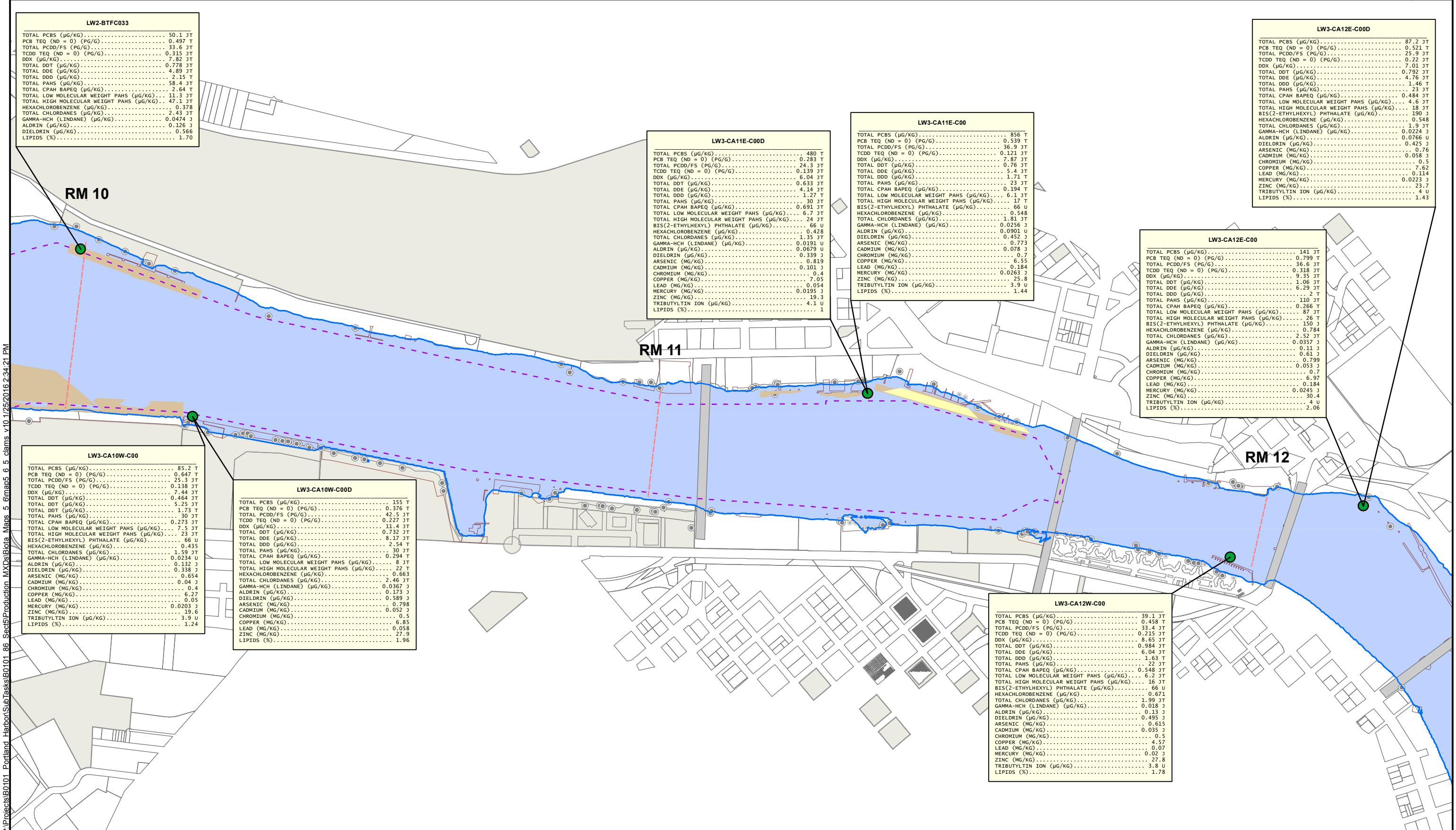


FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Map Features

- Clam Sample Location
- Outfall
- Bridges
- Capping Areas
- Navigation Channel
- Docks and Structures
- Dredging Areas
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- River Edge +13 ft NAVD
- Dock Drain
- Roof Drain

Map 5.6-5e
Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Clams



P:\Projects\B0101_Portland Harbor\SubTasks\B0101_86_Sect5\Production\IXDs\Biota_Maps_5_6mmaps_6.5 claims v01252016.234:21.FM

FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Map Features

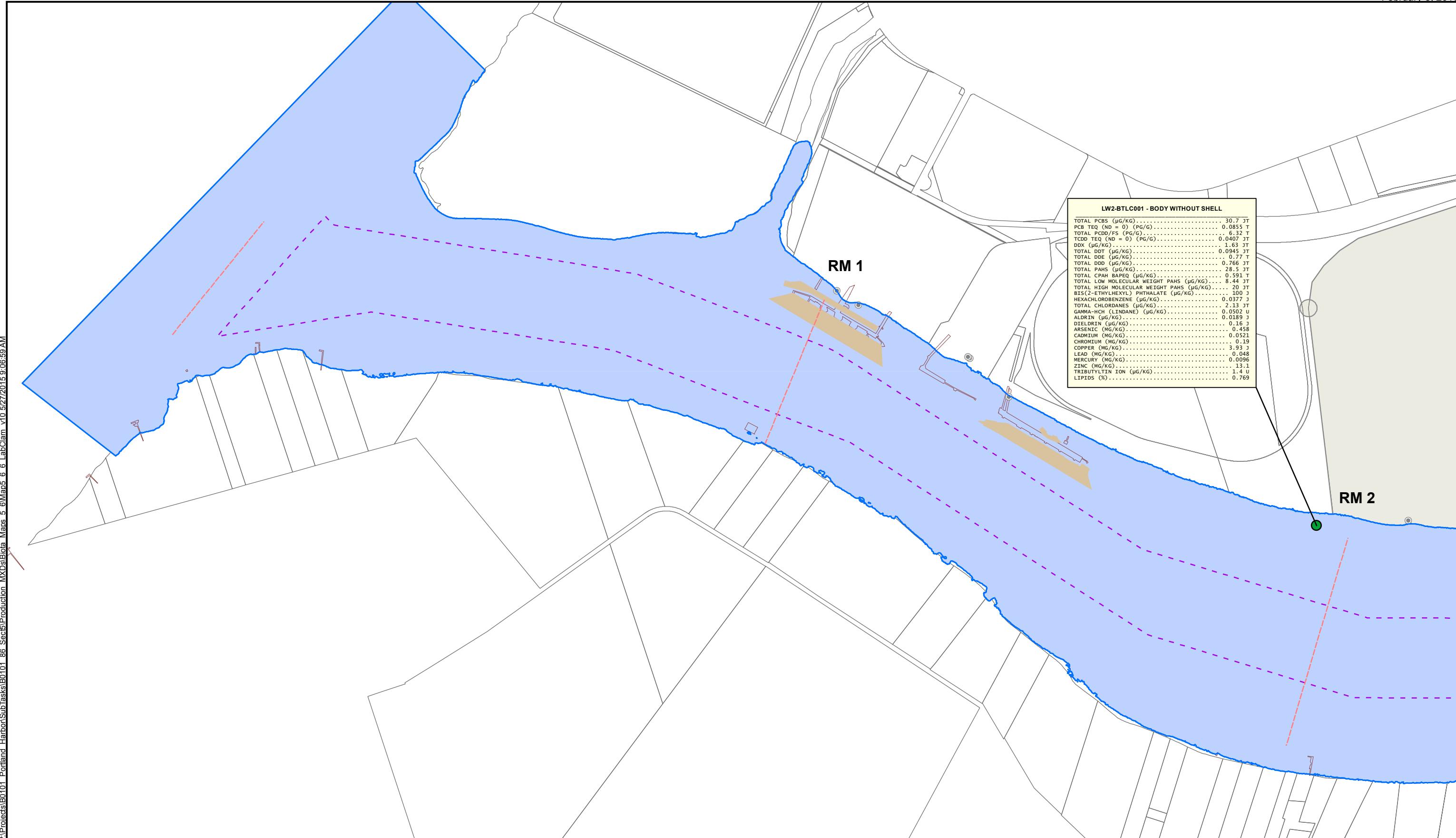
- Clam Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Dredging Areas
- Waterfront Taxlots

0 400 800 1,600 Feet

Map Features

- Clam Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Dredging Areas
- Capping Areas
- Waterfront Taxlots

Map 5.6-5
Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Clams
RM 10 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 400 800 1,600 Feet

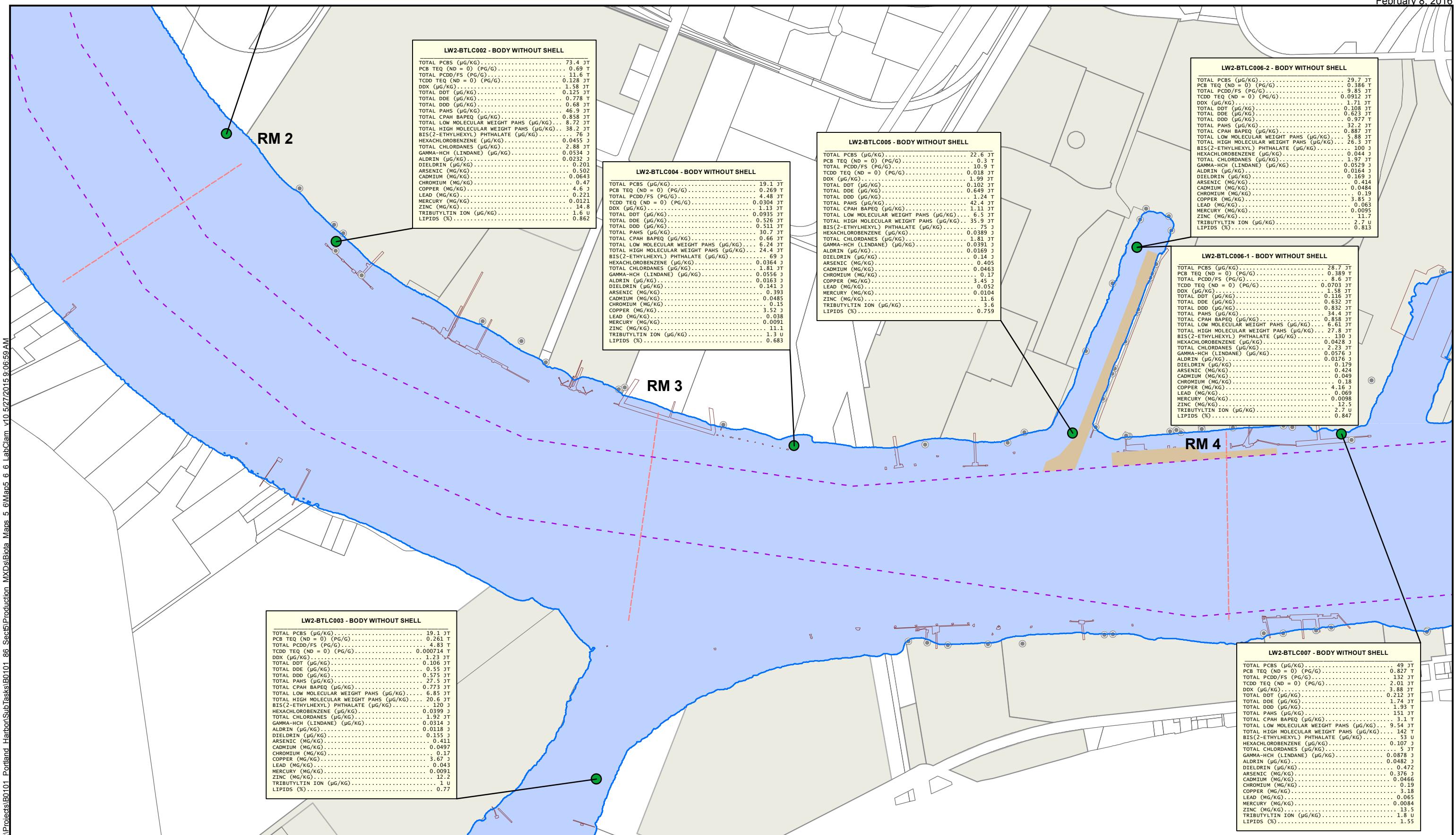
Map Features

- Laboratory Clam Sample Location
- Outfall
- Bridges
- Capping Areas
- River Miles
- Docks and Structures
- Dredging Areas
- Navigation Channel
- Dock Drain
- Upland ECSI Sites (2008)
- Roof Drain
- Waterfront Taxlots
- River Edge +13 ft NAVD

Map 5.6-6a

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Laboratory
Clams Exposed to Site Sediments

RM 1 to 2

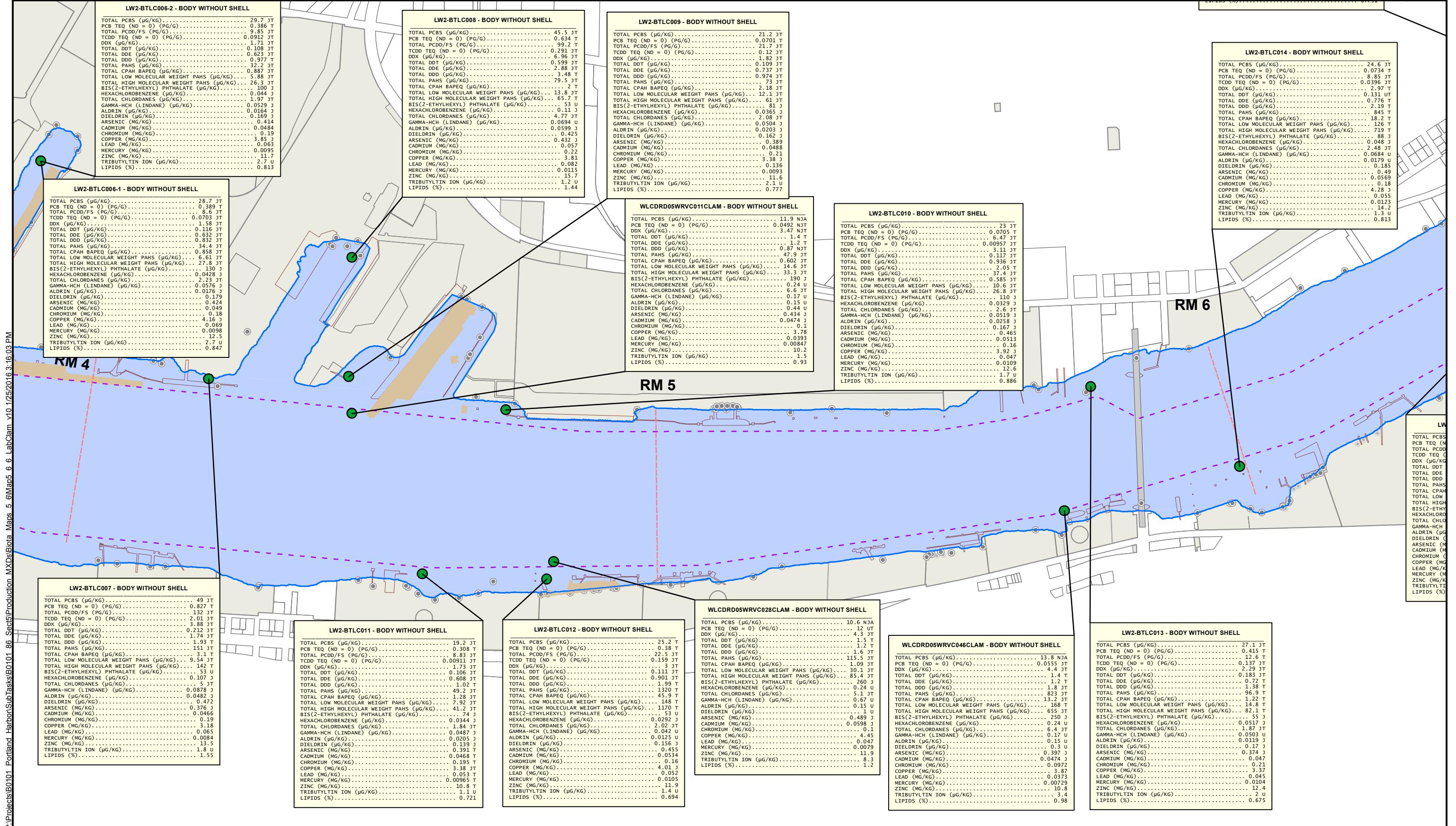


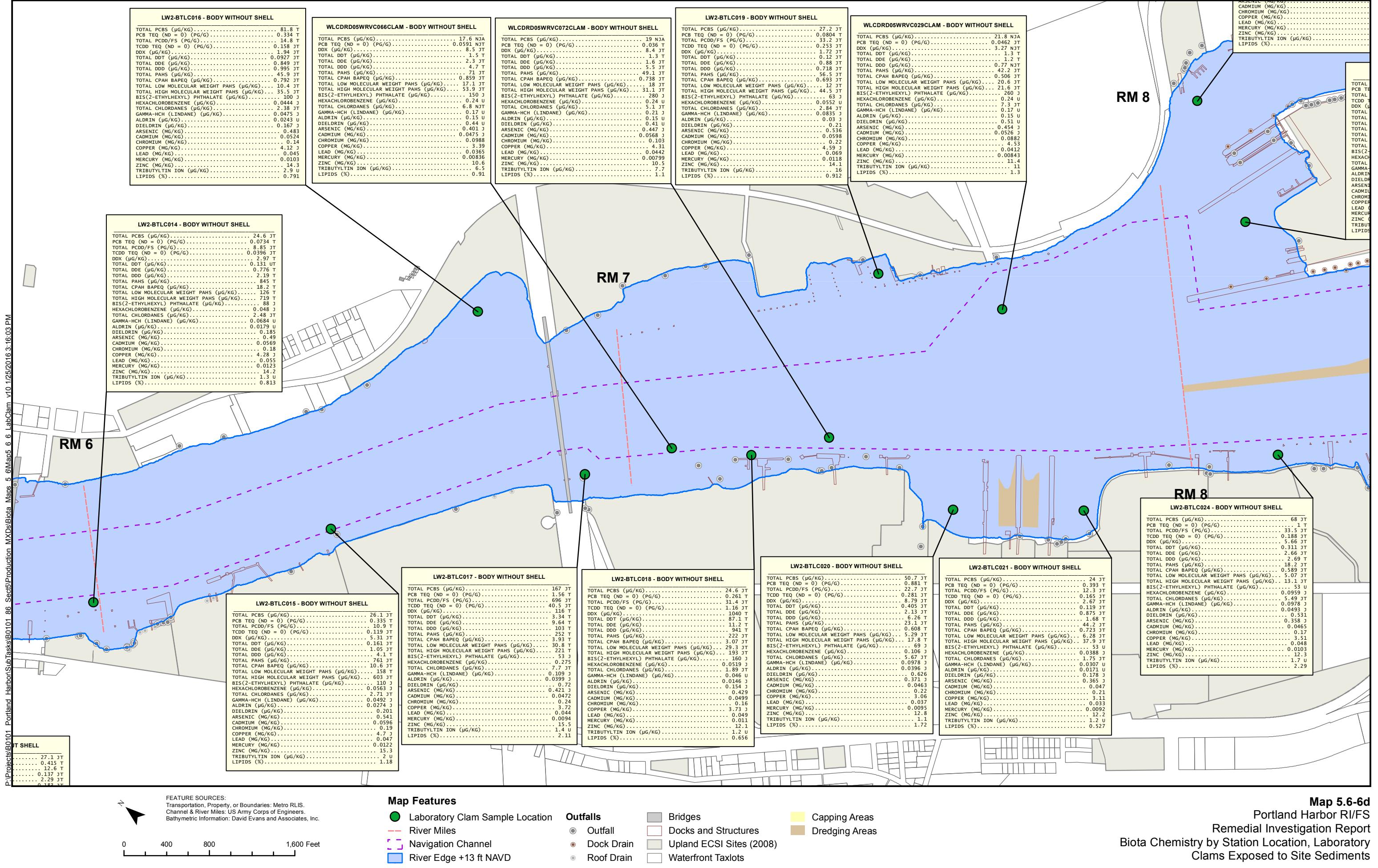
Map Features

- Laboratory Clam Sample Location
- Outfalls
- Bridges
- Capping Areas
- River Miles
- Docks and Structures
- Dredging Areas
- Navigation Channel
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- River Edge +13 ft NAVD
- Dock Drain
- Roof Drain

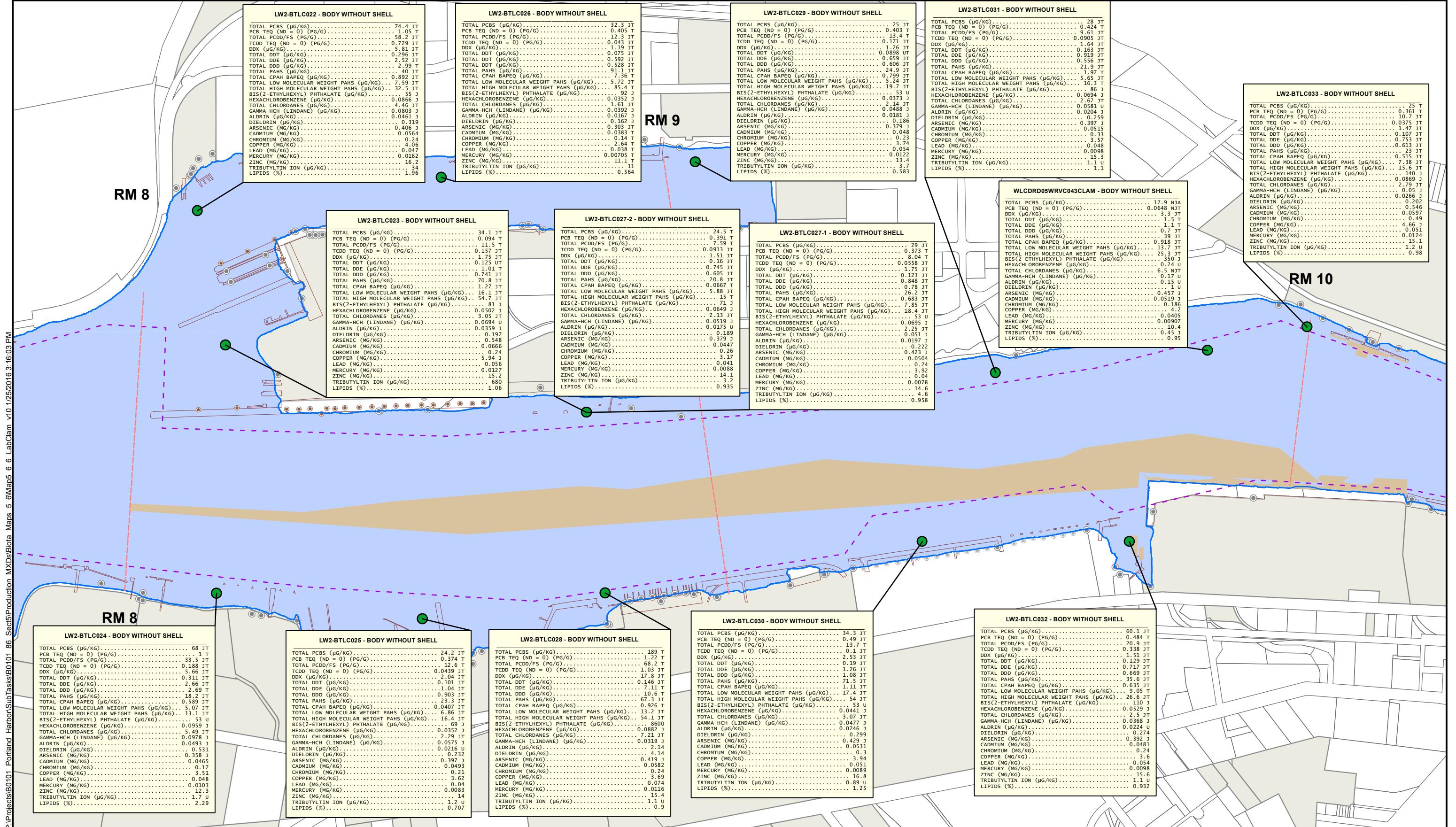
Map 5.6-6b

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Laboratory
Clams Exposed to Site Sediments





Map 5.6-6d
Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Laboratory
Clams Exposed to Site Sediments

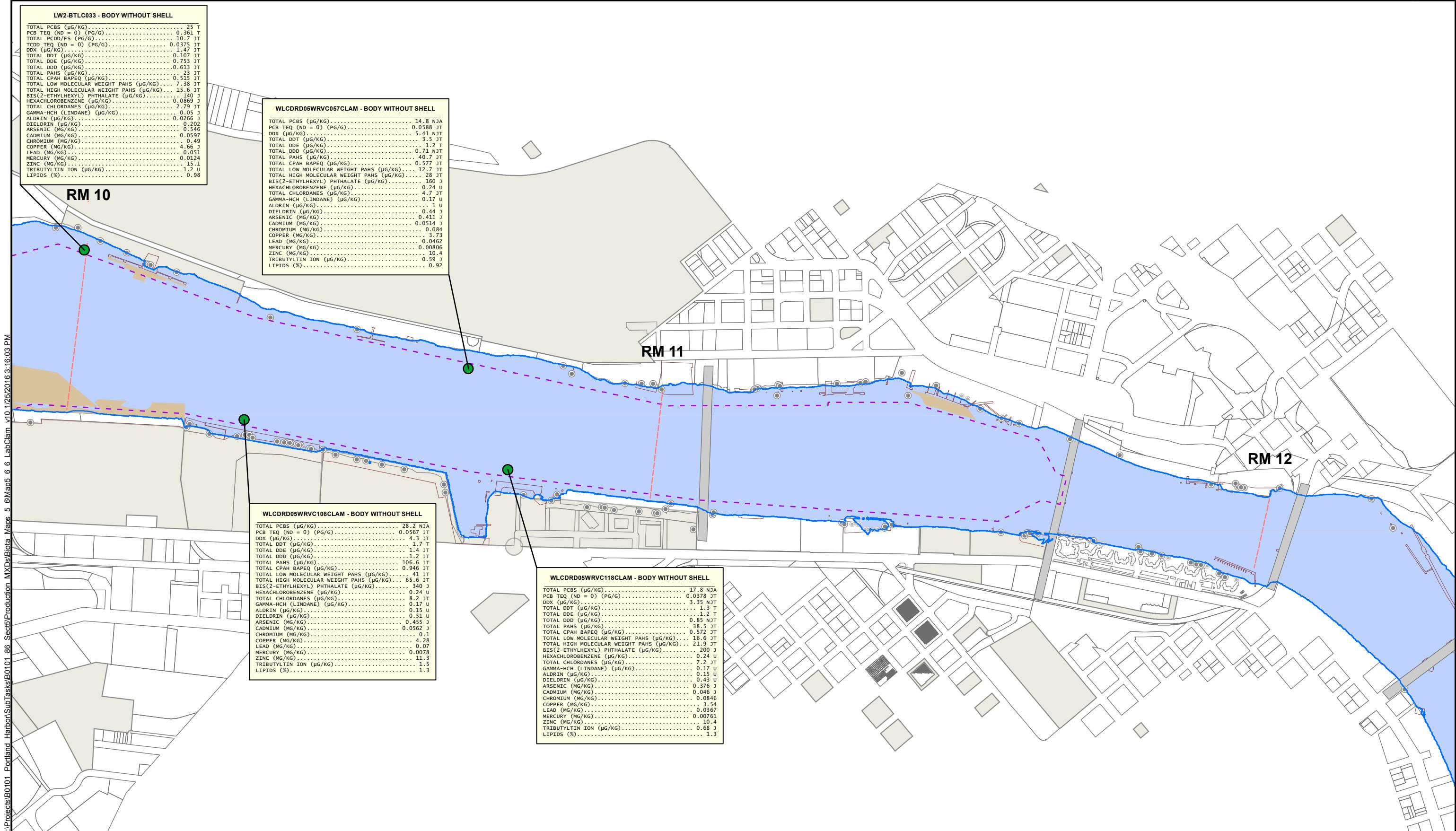


Map Features

Transportation, Property, or Boundaries: Metro RLS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Map 5.6-6e

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Laboratory
Clams Exposed to Site Sediments



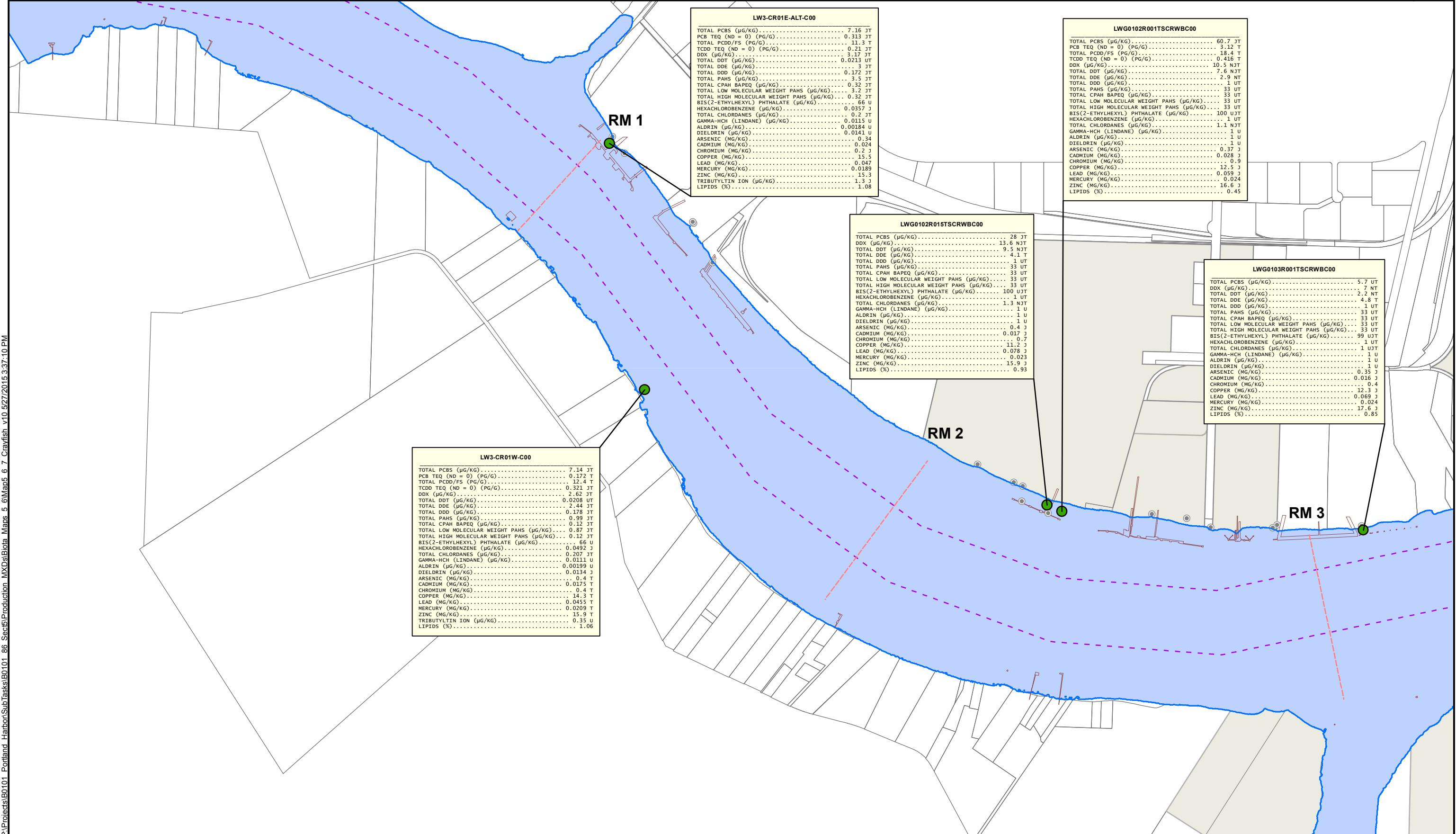
Map Features

- Laboratory Clam Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- Capping Areas
- Dredging Areas

Map 5.6-6f

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Laboratory
Clams Exposed to Site Sediments

RM 10 to12



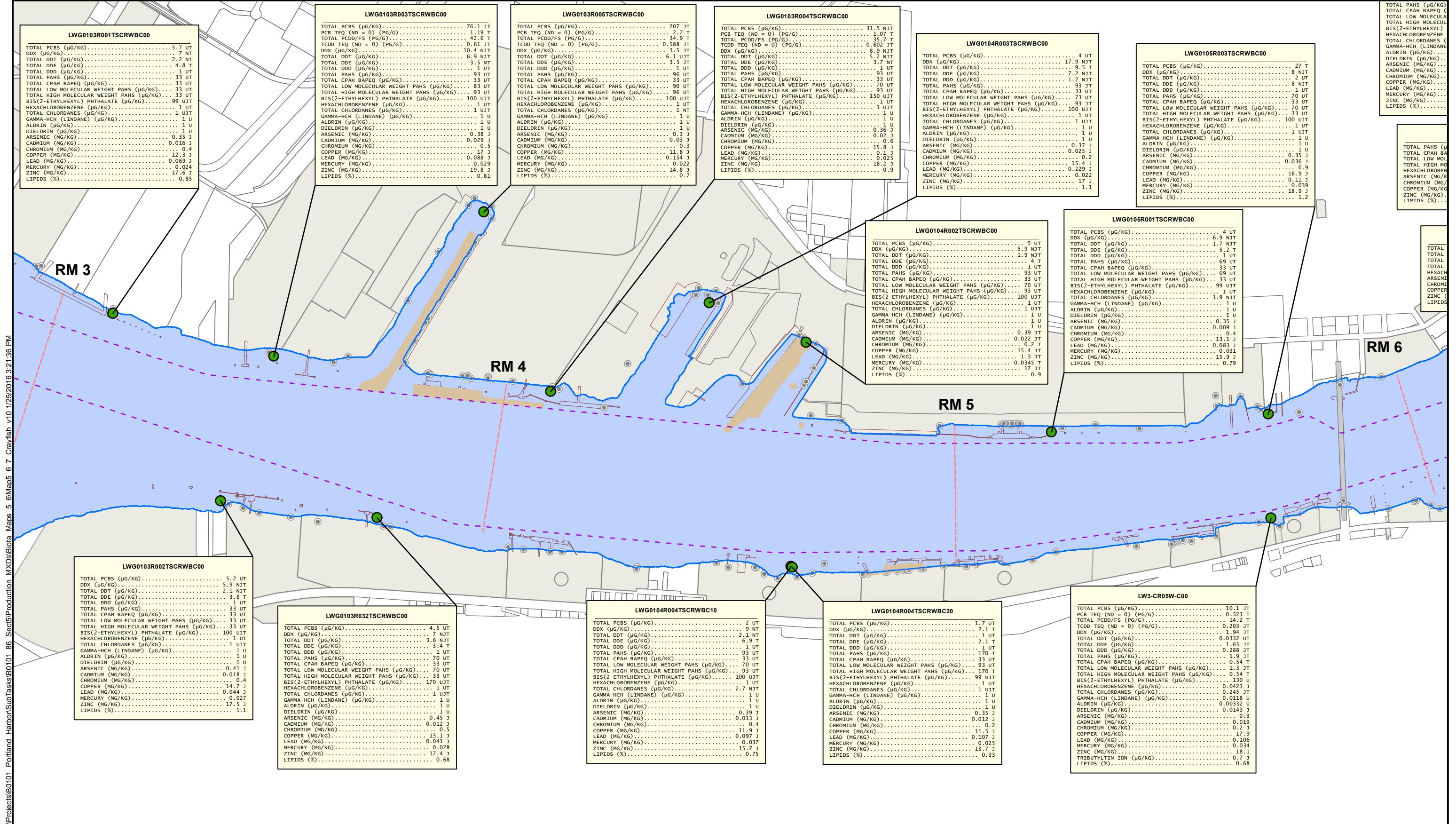
Map Features

- Crayfish Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Bridges
- Capping Areas
- Docks and Structures
- Dredging Areas
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- Roof Drain
- Navigation Channel
- Outfall
- Dock Drain
- Roof Drain

Map 5.6-7a

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Crayfish

RM 1 to 3



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 500 1,000 2,000 Feet

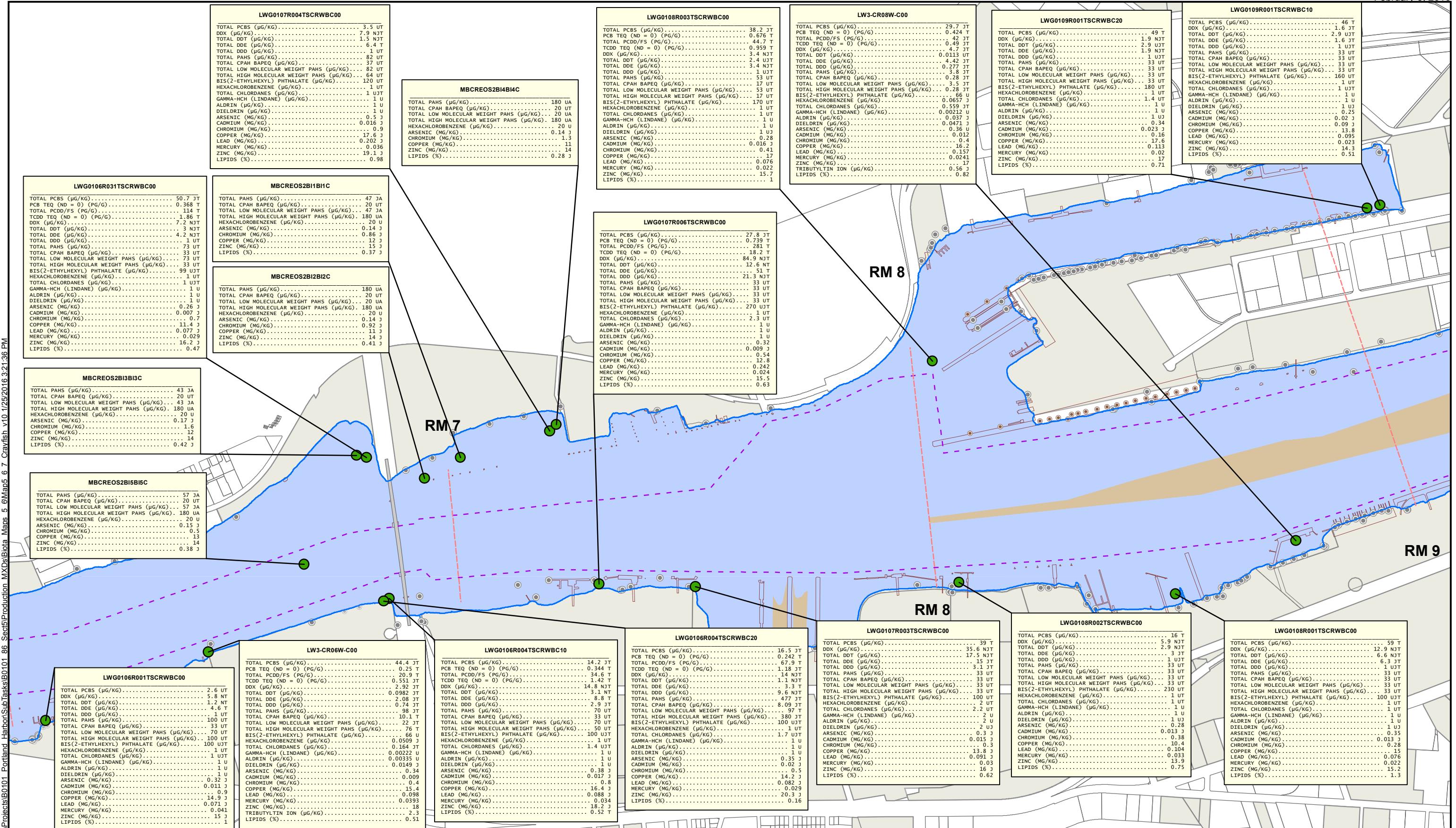
Map Features

- Crayfish Sample Location
- Outfalls
- Bridges
- Capping Areas
- River Miles
- Docks and Structures
- Total PAHs (µg/kg)
- Total CPAH BAPEQ (%)
- Total Low Molecular Weight PAHs (µg/kg)
- Total High Molecular Weight PAHs (µg/kg)
- Navigation Channel
- Upland ECSI Sites (2008)
- Dredging Areas
- Roof Drain
- Waterfront Taxlots
- Tributyltin Ion (µg/kg)
- LIPIDS (%)

Map 5.6-7b

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Crayfish

RM 3 to 6



Projects\B0101\Portland Harbor\Sub Tasks\B0101_86_Sect5\Production MXDs\Biota_Maps 5 6\Map5 6 7 Crayfish v10 1/25/2016 3:21:36 PM

Map Features

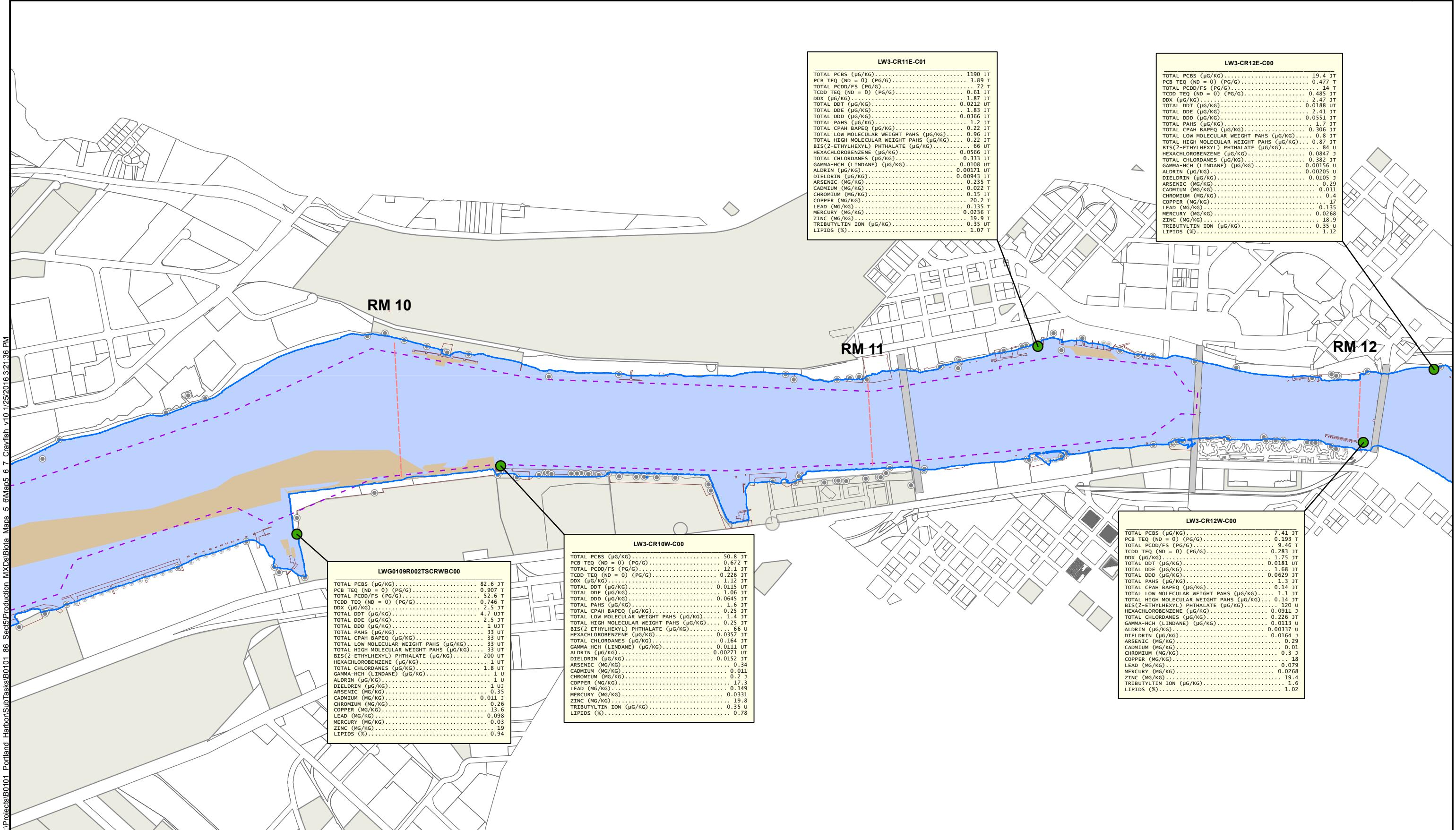
- Crayfish Sample Location
 - Outfalls
 - Bridges
 - Capping Areas
 - River Miles
 - Outfall
 - Docks and Structures
 - Dredging Areas
 - Navigation Channel
 - Dock Drain
 - Upland ECSI Sites (2008)
 - Waterfront Taxlots
 - River Edge +13 ft NAVD
 - Roof Drain

FEATURE SOURCES:
 Transportation, Property, or Boundaries: Metro RLIS.
 Channel & River Miles: US Army Corps of Engineers.
 Bathymetric Information: David Evans and Associates, Inc.

Map 5.6-7c

Portland Harbor RI/FS
Remedial Investigation Report
Volume One: Site Characterization

**Remedial Investigation Report
Biota Chemistry by Station Location, Crayfish**



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 500 1,000 2,000 Feet

Map Features

- | | | | |
|----------------------------|--------------|----------------------------|----------------------|
| ● Crayfish Sample Location | ● Outfalls | ● Bridges | ● Capping Areas |
| — River Miles | ● Outfall | ● Docks and Structures | ● Dredging Areas |
| ■ Navigation Channel | ● Dock Drain | ■ Upland ECSI Sites (2008) | ■ Waterfront Taxlots |
| ■ River Edge +13 ft NAVD | ● Roof Drain | | |

| LW3-CR11E-C01 | |
|--|------------|
| TOTAL PCBs (µg/kg) | 1190 JT |
| PCB TEQ (ND = 0) (PG/G) | 3.89 T |
| TOTAL PCDD/FS (PG/G) | .72 T |
| TCDD TEQ (ND = 0) (PG/G) | 0.61 JT |
| DDX (µg/kg) | 1.87 JT |
| TOTAL DDD (µg/kg) | 0.083 UT |
| TOTAL DDE (µg/kg) | 0.083 JT |
| TOTAL DDT (µg/kg) | 0.0366 JT |
| TOTAL PAHs (µg/kg) | 1.2 JT |
| TOTAL CPAH BAPEQ (µg/kg) | 0.22 JT |
| TOTAL LOW MOLECULAR WEIGHT PAHS (µg/kg) | 0.96 JT |
| TOTAL HIGH MOLECULAR WEIGHT PAHS (µg/kg) | 0.22 JT |
| BIS(2-ETHYLHEXYL) PHTHALATE (µg/kg) | 62 U |
| HEXA(2-ETHYLHEXYL) PHTHALATE (µg/kg) | 0.006 UT |
| TOTAL CHLORDANES (µg/kg) | 0.333 JT |
| GAMMA-HCH (LINDANE) (µg/kg) | 0.0108 UT |
| ALDRIN (µg/kg) | 0.00171 UT |
| DIELDRIN (µg/kg) | 0.00943 JT |
| ARSENIC (mg/kg) | 0.235 T |
| CADMIUM (mg/kg) | 0.022 T |
| CHROMIUM (mg/kg) | 0.4 T |
| COPPER (mg/kg) | 20.2 T |
| LEAD (mg/kg) | 0.135 T |
| MERCURY (mg/kg) | 0.0236 T |
| ZINC (mg/kg) | 19.9 T |
| TRIBUTYLTIN ION (µg/kg) | 0.35 UT |
| LIPIDS (%) | 1.07 T |

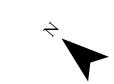
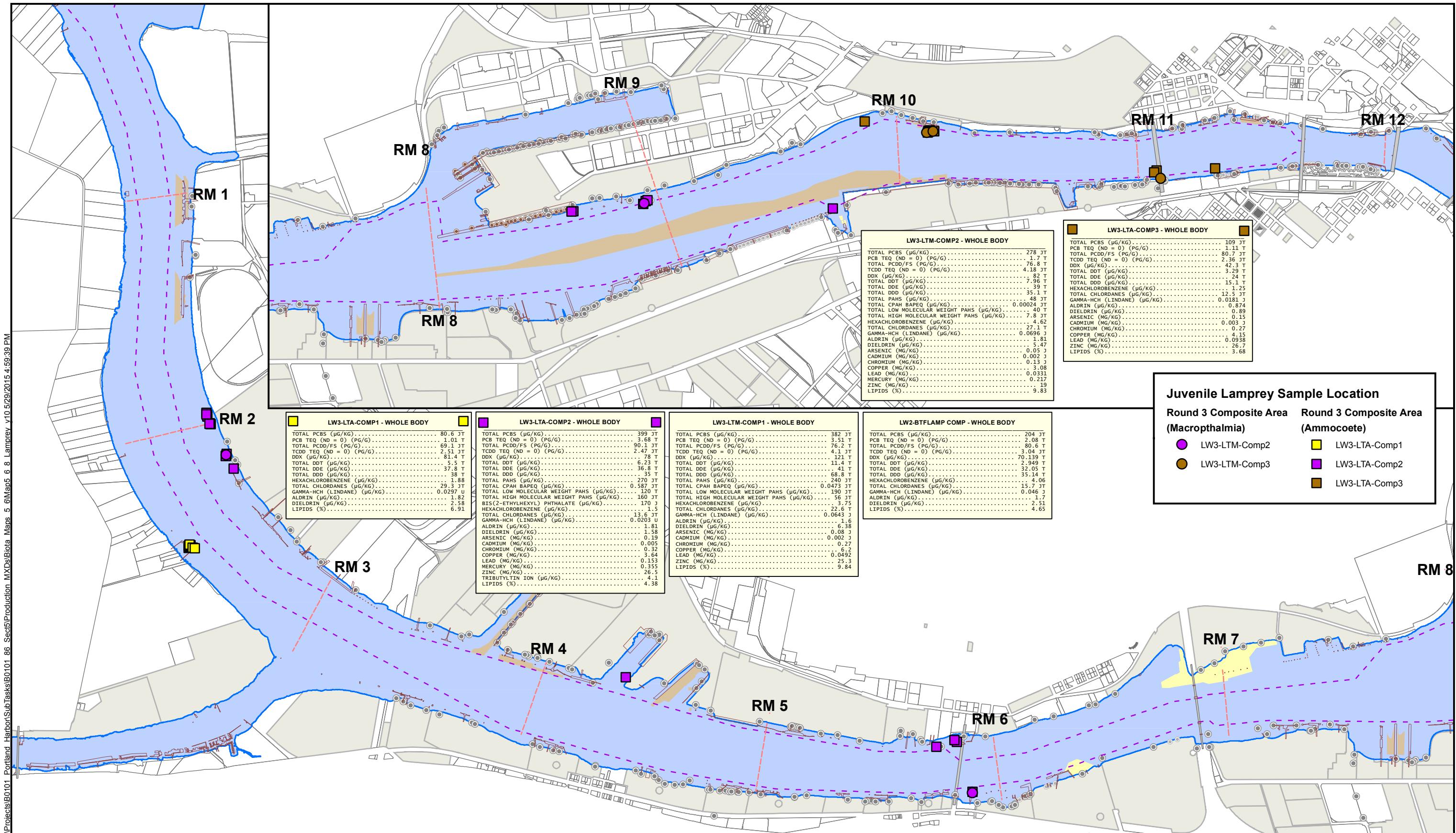
| LW3-CR12E-C00 | |
|--|-----------|
| TOTAL PCBs (µg/kg) | 19.4 JT |
| PCB TEQ (ND = 0) (PG/G) | 0.477 T |
| TOTAL PCDD/FS (PG/G) | 14 T |
| TCDD TEQ (ND = 0) (PG/G) | 0.485 JT |
| DDX (µg/kg) | 2.47 JT |
| TOTAL DDE (µg/kg) | 0.0188 UT |
| TOTAL DDT (µg/kg) | 2.41 JT |
| TOTAL PAHs (µg/kg) | 0.0551 JT |
| TOTAL CPAH BAPEQ (µg/kg) | 0.306 JT |
| TOTAL LOW MOLECULAR WEIGHT PAHS (µg/kg) | 0.8 JT |
| TOTAL HIGH MOLECULAR WEIGHT PAHS (µg/kg) | 0.87 JT |
| BIS(2-ETHYLHEXYL) PHTHALATE (µg/kg) | 84 U |
| HEXA(2-ETHYLHEXYL) PHTHALATE (µg/kg) | 0.0847 J |
| TOTAL CHLORDANES (µg/kg) | 0.382 JT |
| GAMMA-HCH (LINDANE) (µg/kg) | 0.00556 U |
| ALDRIN (µg/kg) | 0.00205 U |
| DIELDRIN (µg/kg) | 0.0105 J |
| ARSENIC (mg/kg) | 0.29 |
| CADMIUM (mg/kg) | 0.011 |
| CHROMIUM (mg/kg) | 0.4 |
| COPPER (mg/kg) | 17 |
| LEAD (mg/kg) | 0.135 |
| MERCURY (mg/kg) | 0.0268 |
| ZINC (mg/kg) | 18.9 |
| TRIBUTYLTIN ION (µg/kg) | 0.35 U |
| LIPIDS (%) | 1.12 |

| LW3-CR12W-C00 | |
|--|-----------|
| TOTAL PCBs (µg/kg) | 7.41 JT |
| PCB TEQ (ND = 0) (PG/G) | 0.193 T |
| TOTAL PCDD/FS (PG/G) | 9.46 T |
| TCDD TEQ (ND = 0) (PG/G) | 0.283 JT |
| DDX (µg/kg) | 1.75 JT |
| TOTAL DDE (µg/kg) | 0.0181 UT |
| TOTAL DDT (µg/kg) | 1.68 JT |
| TOTAL PAHs (µg/kg) | 0.0833 JT |
| TOTAL CPAH BAPEQ (µg/kg) | 0.13 JT |
| TOTAL LOW MOLECULAR WEIGHT PAHS (µg/kg) | 1.1 JT |
| TOTAL HIGH MOLECULAR WEIGHT PAHS (µg/kg) | 0.14 JT |
| BIS(2-ETHYLHEXYL) PHTHALATE (µg/kg) | 120 U |
| HEXA(2-ETHYLHEXYL) PHTHALATE (µg/kg) | 0.0911 J |
| TOTAL CHLORDANES (µg/kg) | 0.12 JT |
| GAMMA-HCH (LINDANE) (µg/kg) | 0.0111 U |
| ALDRIN (µg/kg) | 0.00323 U |
| DIELDRIN (µg/kg) | 0.0164 J |
| ARSENIC (mg/kg) | 0.29 |
| CADMIUM (mg/kg) | 0.01 |
| CHROMIUM (mg/kg) | 0.3 J |
| COPPER (mg/kg) | 18 |
| LEAD (mg/kg) | 0.079 |
| MERCURY (mg/kg) | 0.0268 |
| ZINC (mg/kg) | 19.4 |
| TRIBUTYLTIN ION (µg/kg) | 1.6 |
| LIPIDS (%) | 1.02 |

Map Features

- | | | | |
|----------------------------|--------------|----------------------------|----------------------|
| ● Crayfish Sample Location | ● Outfalls | ● Bridges | ● Capping Areas |
| — River Miles | ● Outfall | ● Docks and Structures | ● Dredging Areas |
| ■ Navigation Channel | ● Dock Drain | ■ Upland ECSI Sites (2008) | ■ Waterfront Taxlots |
| ■ River Edge +13 ft NAVD | ● Roof Drain | | |

Map 5.6-7d
Portland Harbor RI/FS Remedial Investigation Report Biota Chemistry by Station Location, Crayfish
RM 9 to 12



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 0.125 0.25 0.5 Miles

Map Features

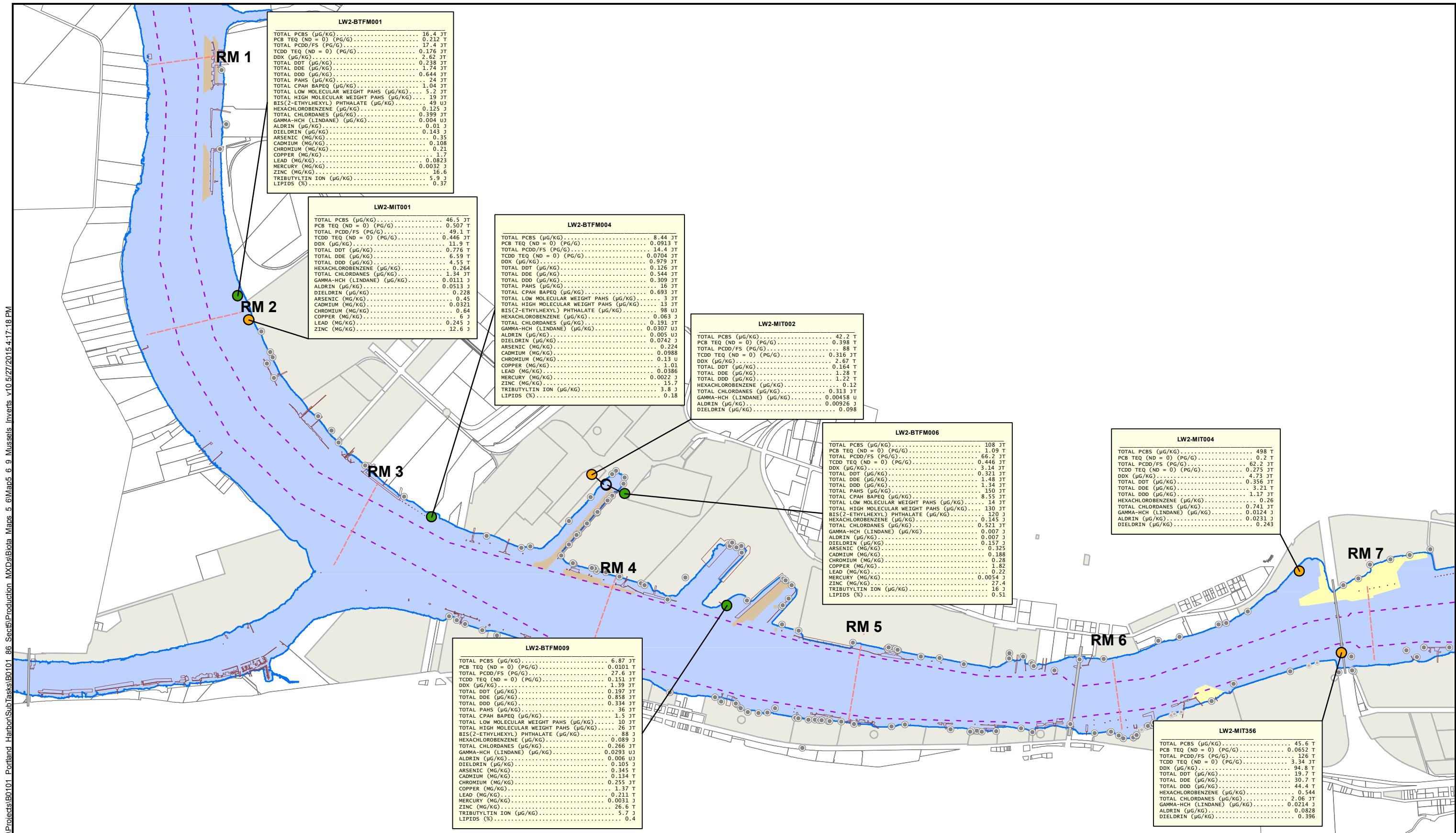
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Outfall
- Dock Drain
- Roof Drain

- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- Capping Areas
- Dredging Areas

Map 5.6-8

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Juvenile Lamprey

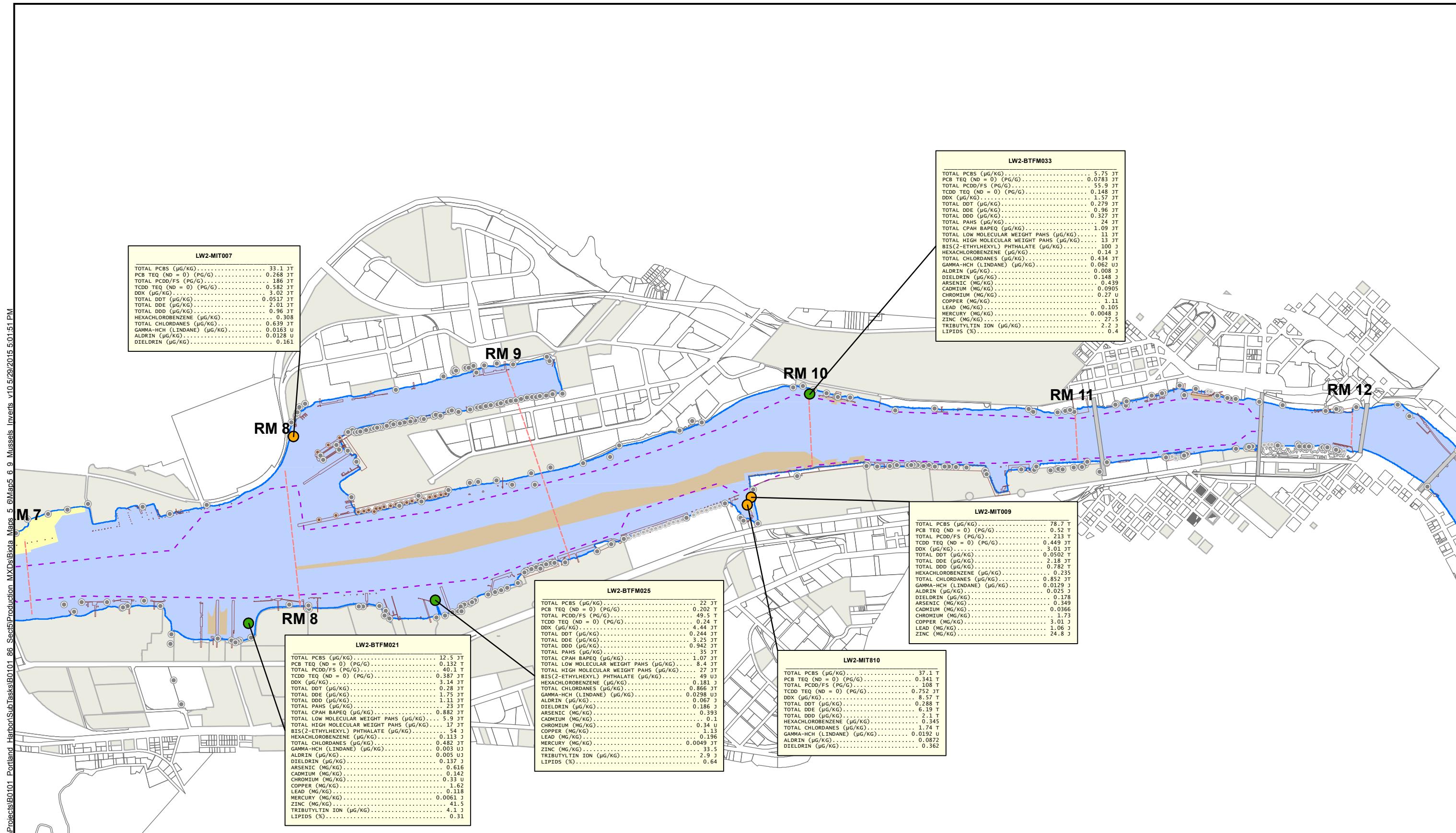
RM 1 to 12



Map Features

- Epibenthic Invertebrates Sample Location
- Mussels Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Bridges
- Docks and Structures
- Outfall
- Dock Drain
- Roof Drain
- Capping Areas
- Dredging Areas
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map 5.6-9a
Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location
Mussels and Epibenthic Invertebrates



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 0.125 0.25 0.5 Miles

Map Features

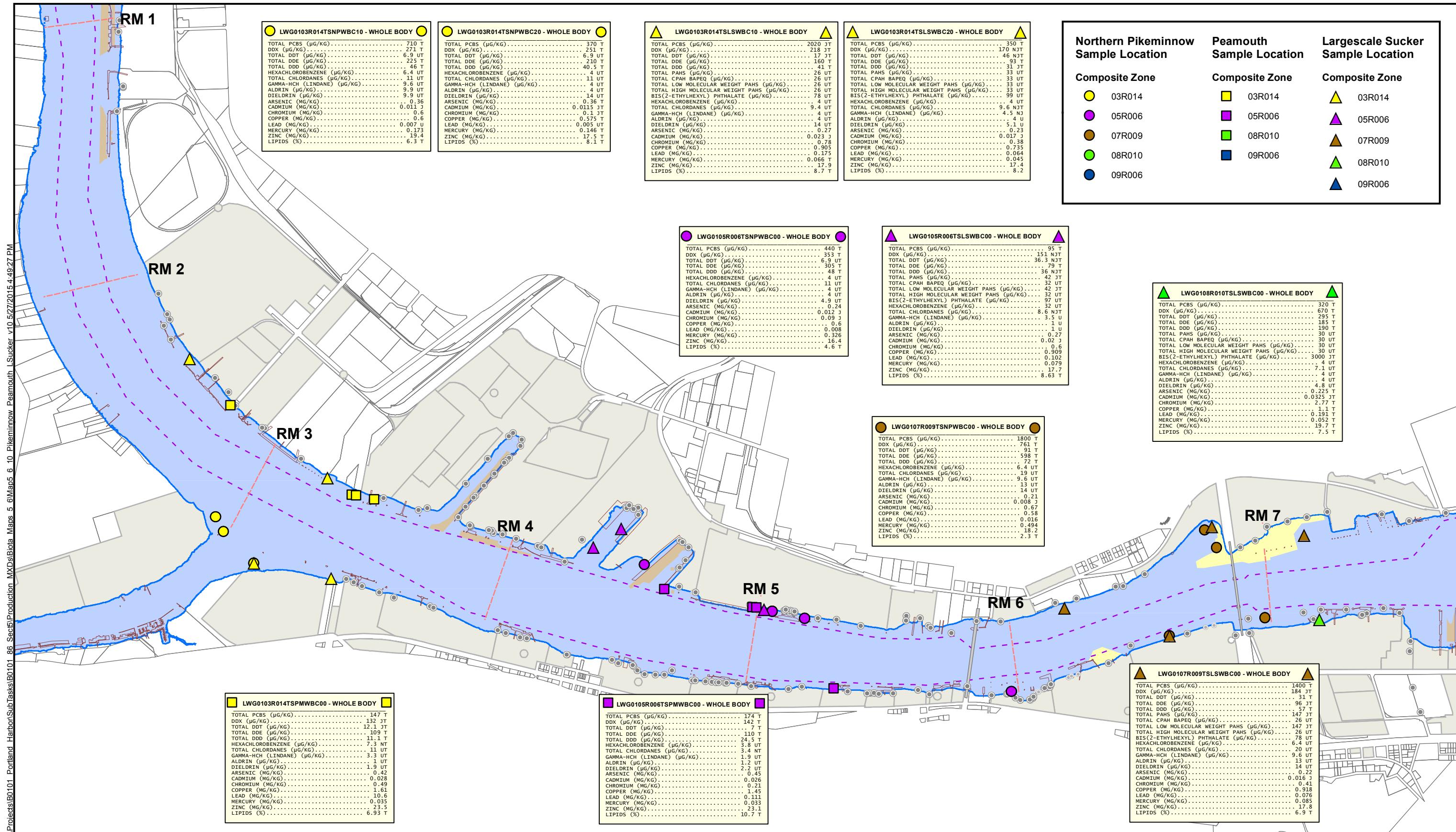
- Epibenthic Invertebrates Sample Location
- Mussels Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfall
- Dock Drain
- Roof Drain

- Bridges
- Docks and Structures
- Capping Areas
- Dredging Areas
- Upland ECSI Sites (2008)
- Waterfront Taxlots

Map 5.6-9b

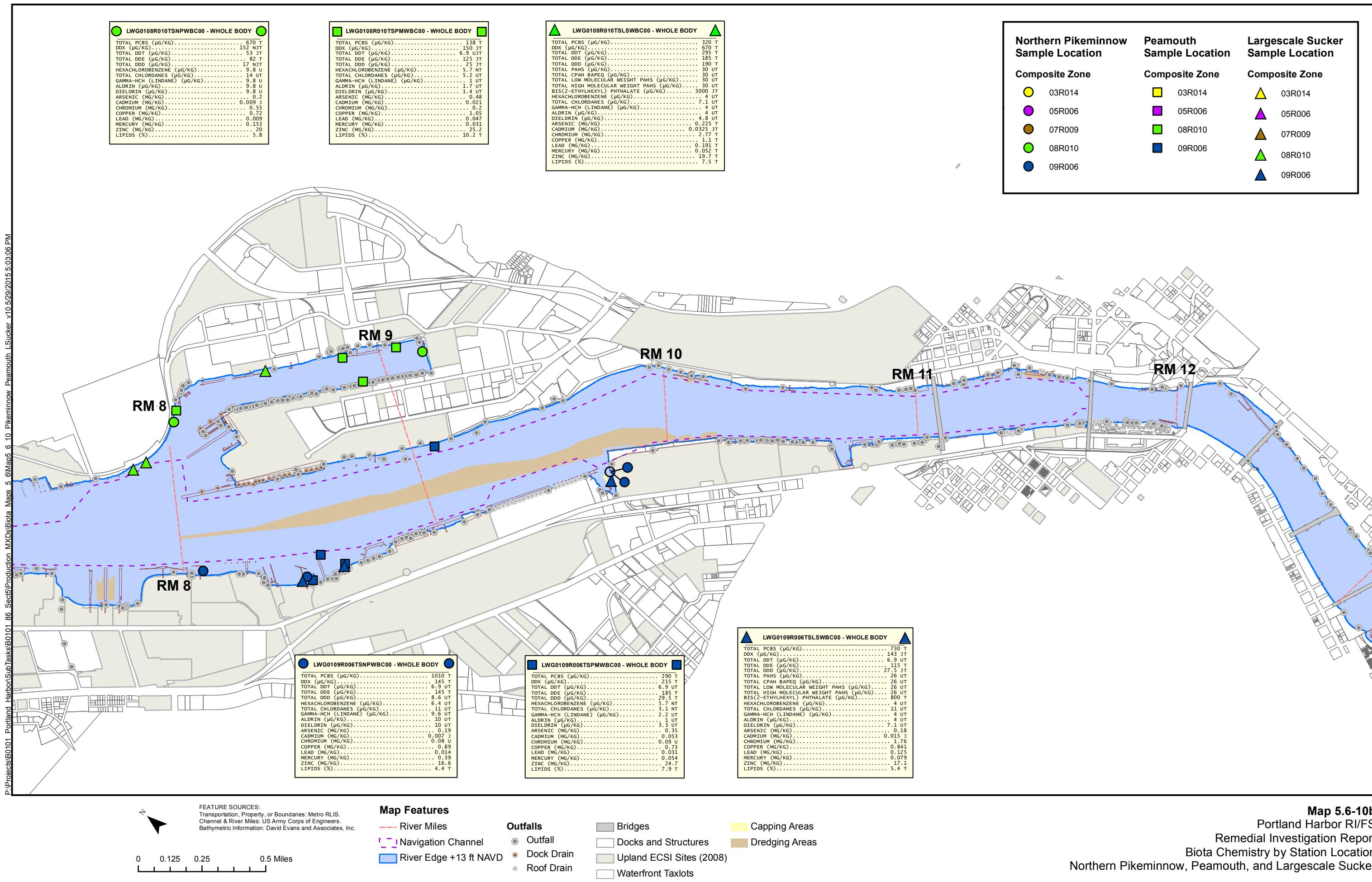
Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location
Mussels and Epibenthic Invertebrates

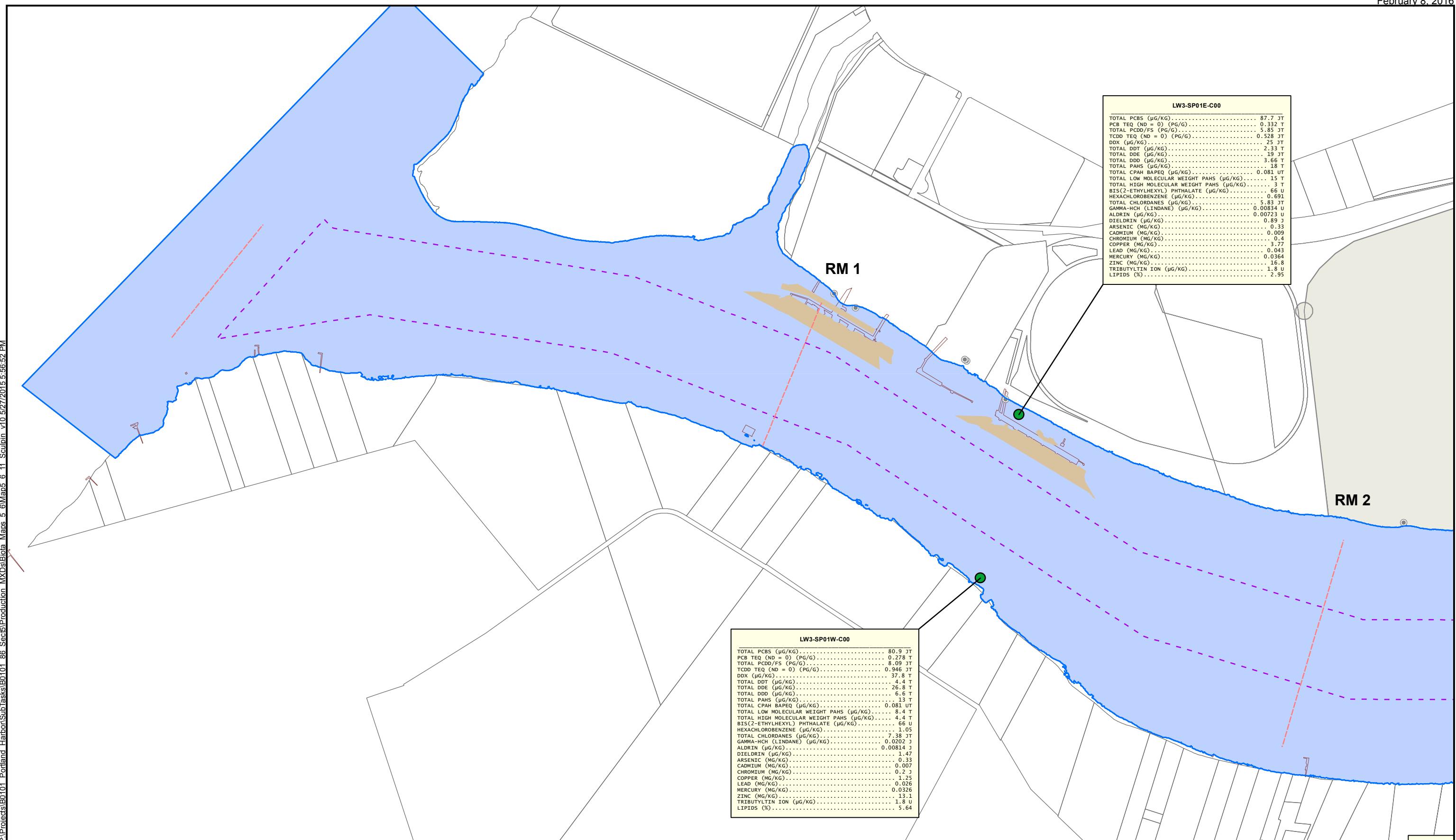
RM 7 to 10



Map 5.6-10a

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location
Northern Pikeminnow, Peamouth, and Largescale Sucker





FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

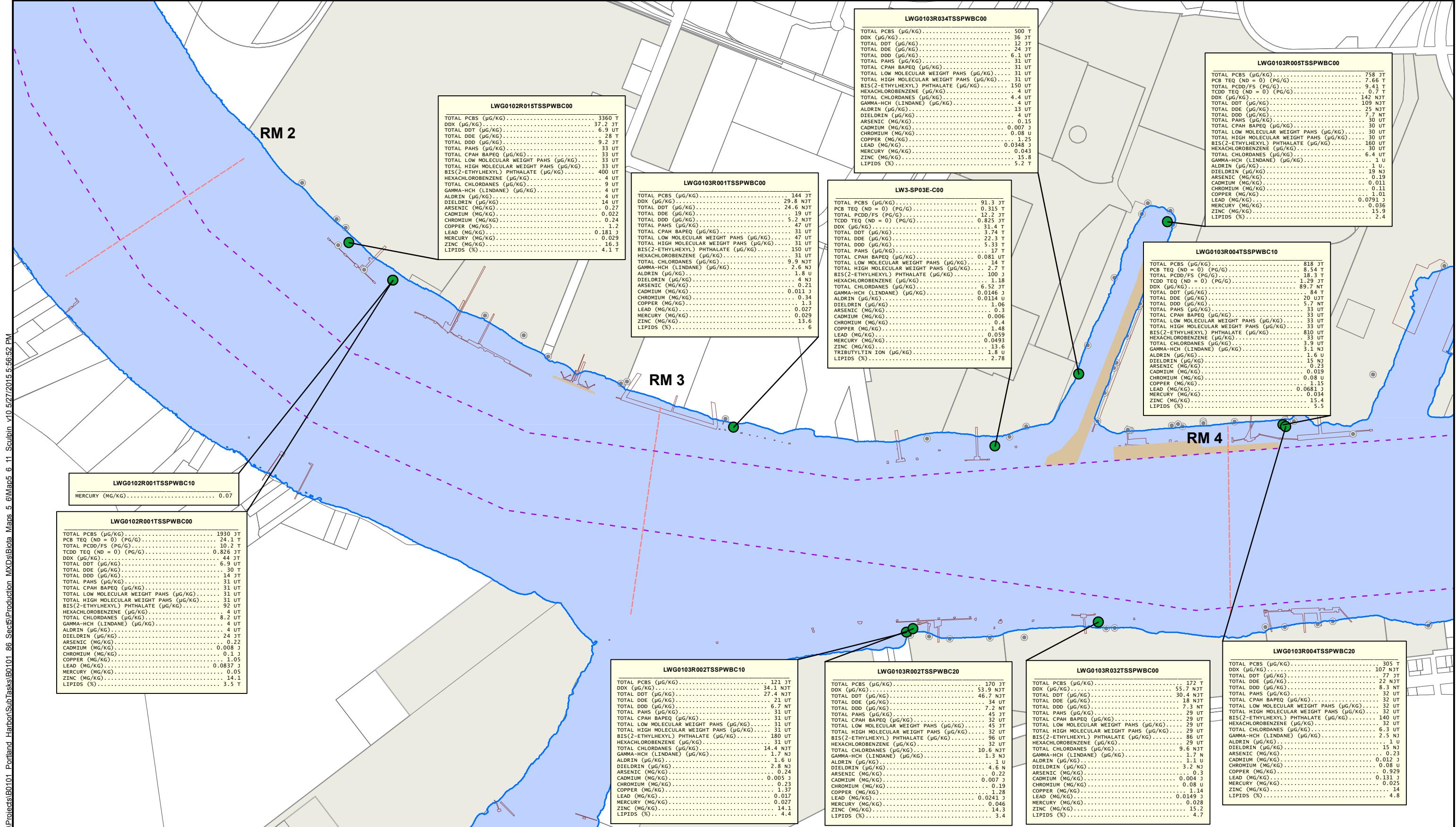
0 400 800 1,600 Feet

Map Features

- Sculpin Sample Location**
- Outfalls**
- Bridges**
- Capping Areas**
- River Miles**
- Docks and Structures**
- Dredging Areas**
- Navigation Channel**
- Roof Drain**
- Waterfront Taxlots**
- River Edge +13 ft NAVD**

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Sculpin

RM 1 to 2



Map Features

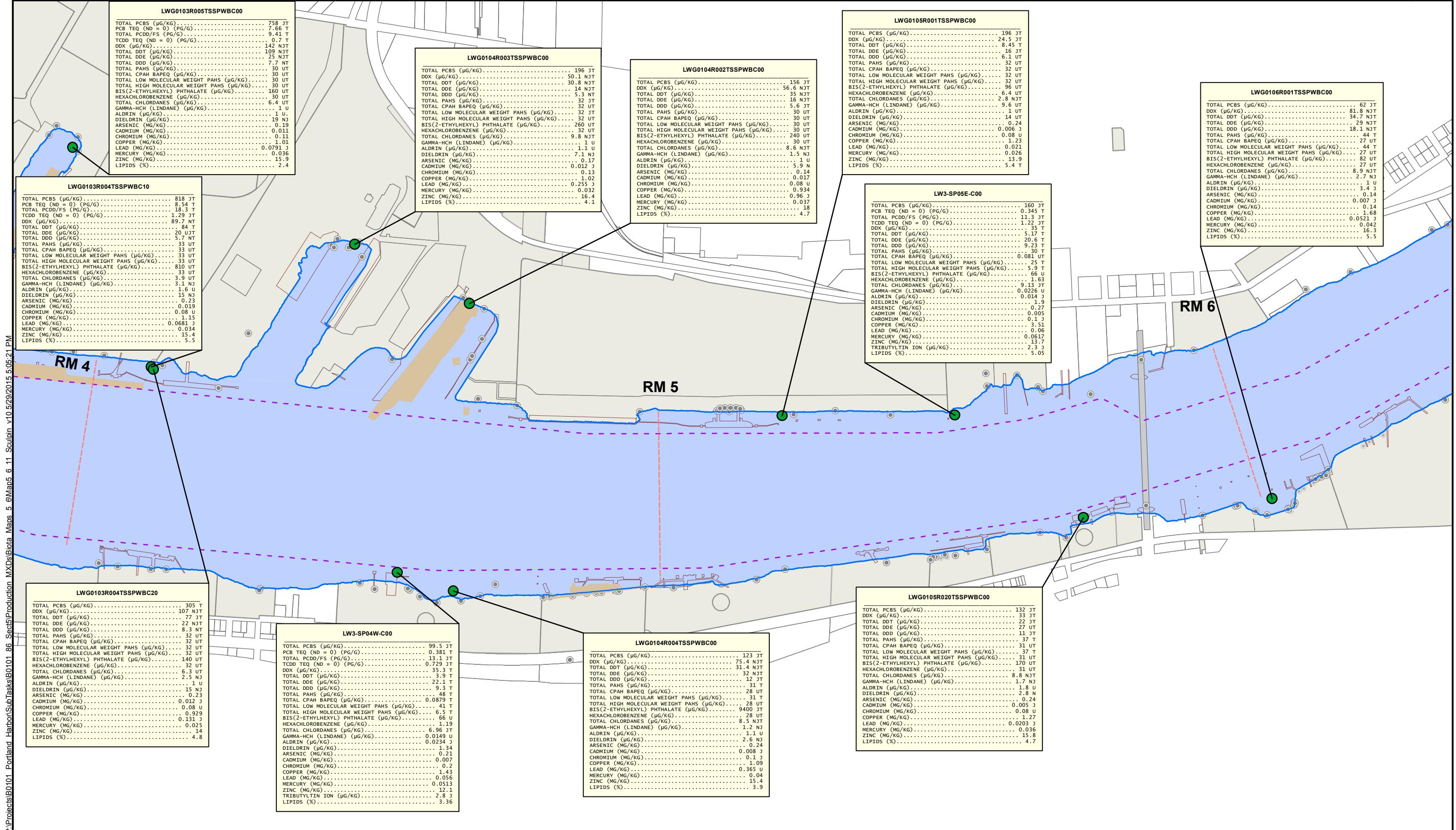
- Sculpin Sample Location
- Outfalls
- Bridges
- Capping Areas
- River Miles
- Docks and Structures
- Dredging Areas
- Navigation Channel
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- River Edge +13 ft NAVD
- Dock Drain
- Roof Drain

0 400 800 1,600 Feet

Map 5.6-11b

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Sculpin

RM 2 to 4

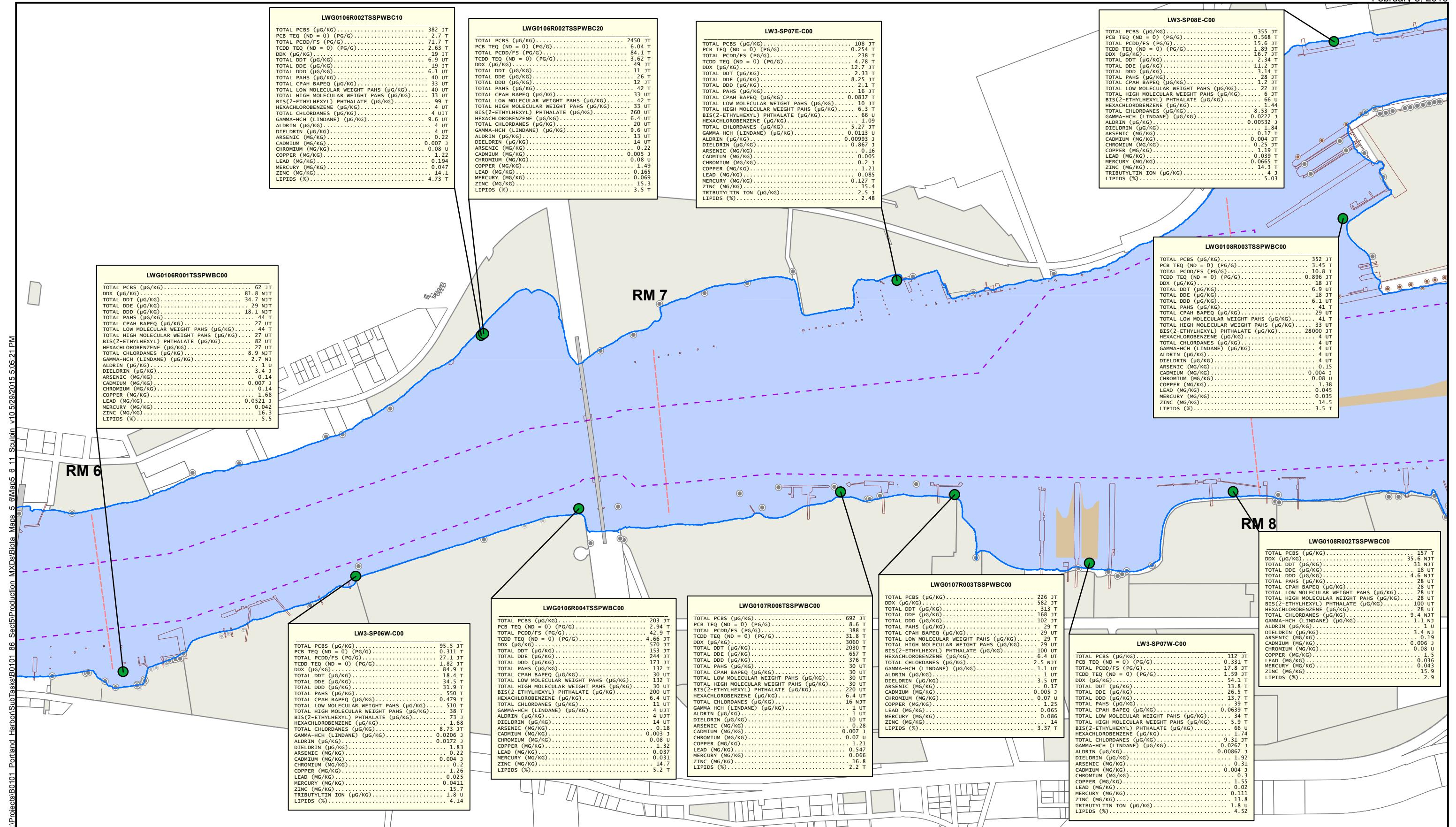


Map Features

- Sculpin Sample Location
- Outfalls
- Bridges
- River Miles
- Capping Areas
- Navigation Channel
- Docks and Structures
- Dredging Areas
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- River Edge +13 ft NAVD
- Dock Drain
- Roof Drain

Map 5.6-11c

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Sculpin



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

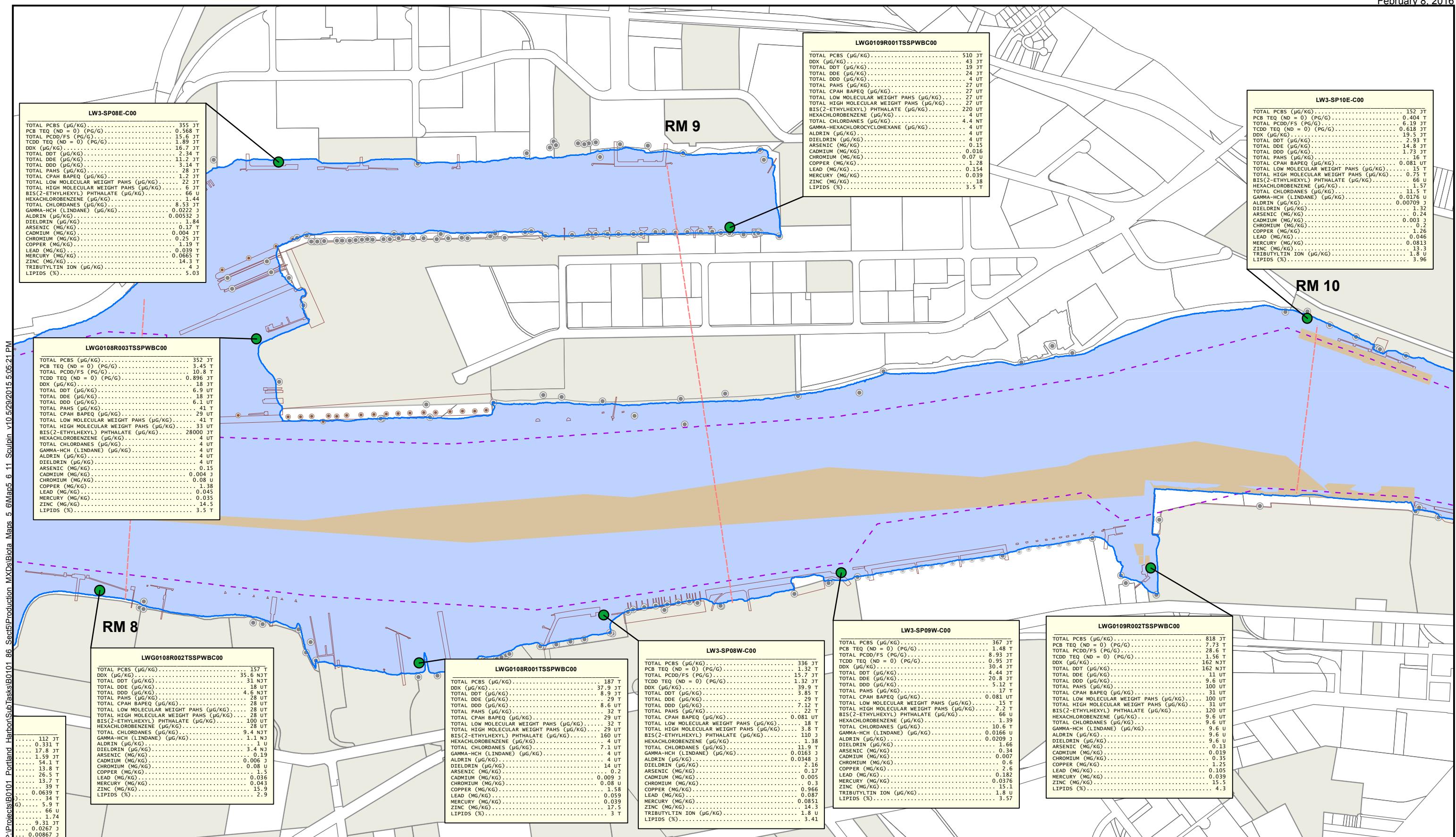
Map Features

- Legend:**

 - Sculpin Sample Location
 - River Miles
 - [] Navigation Channel
 - River Edge +13 ft NAVD
 - Outfalls**
 - Outfall
 - Dock Drain
 - Roof Drain
 - Bridges**
 - Docks and Structures**
 - Upland ECSI Sites (2008)**
 - Waterfront Taxlots**
 - Capping Areas**
 - Dredging Areas**

0 400 800 1,600 Feet

Map 5.6-11d d Harbor RI/FS tigation Report cation, Sculpin



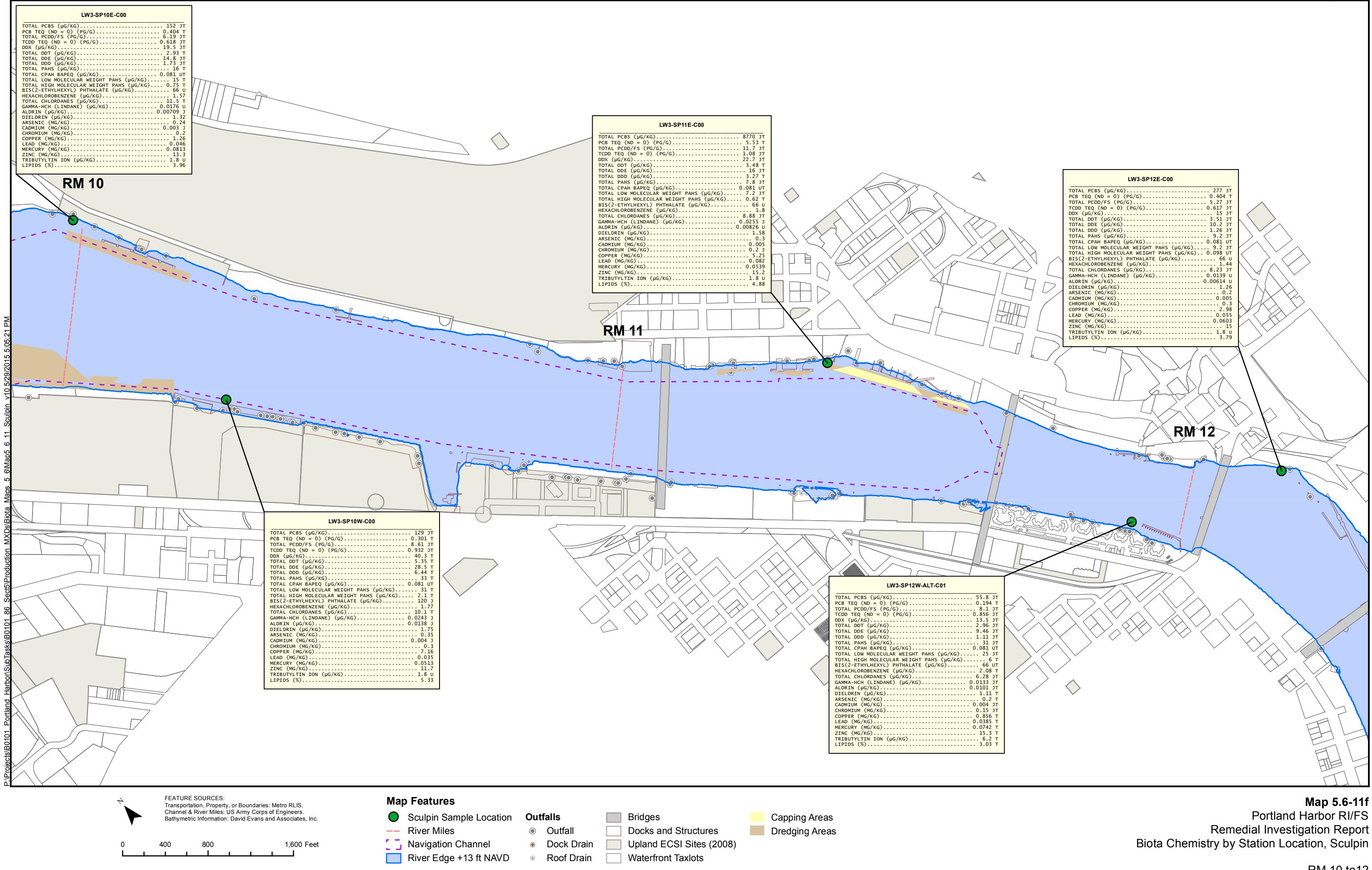
Map Features

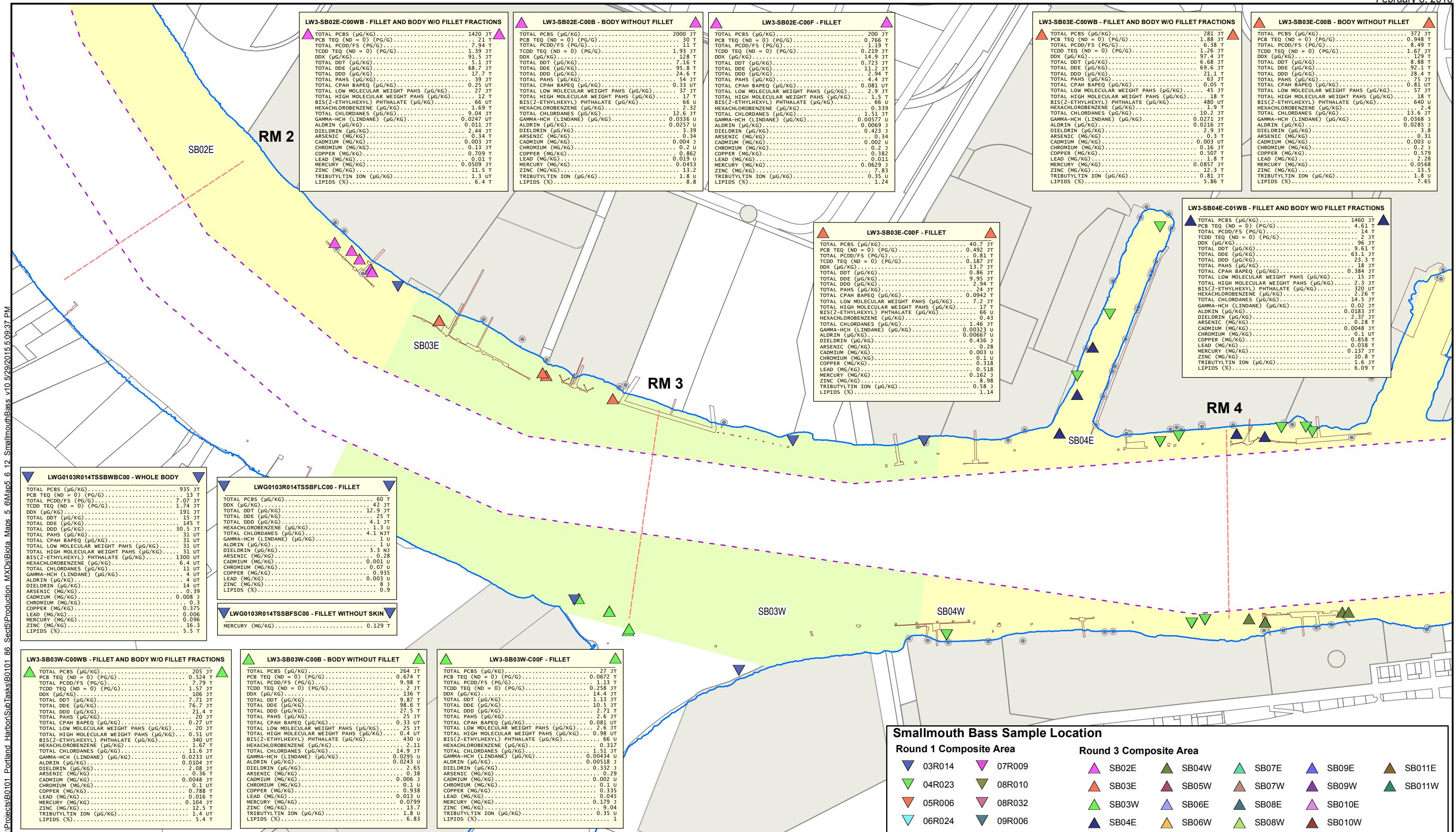
- Sculpin Sample Location
- Outfalls
- Bridges
- Capping Areas
- River Miles
- Docks and Structures
- Dredging Areas
- Navigation Channel
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- River Edge +13 ft NAVD
- Dock Drain
- Roof Drain

Map 5.6-11e

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Sculpin

RM 8 to 10



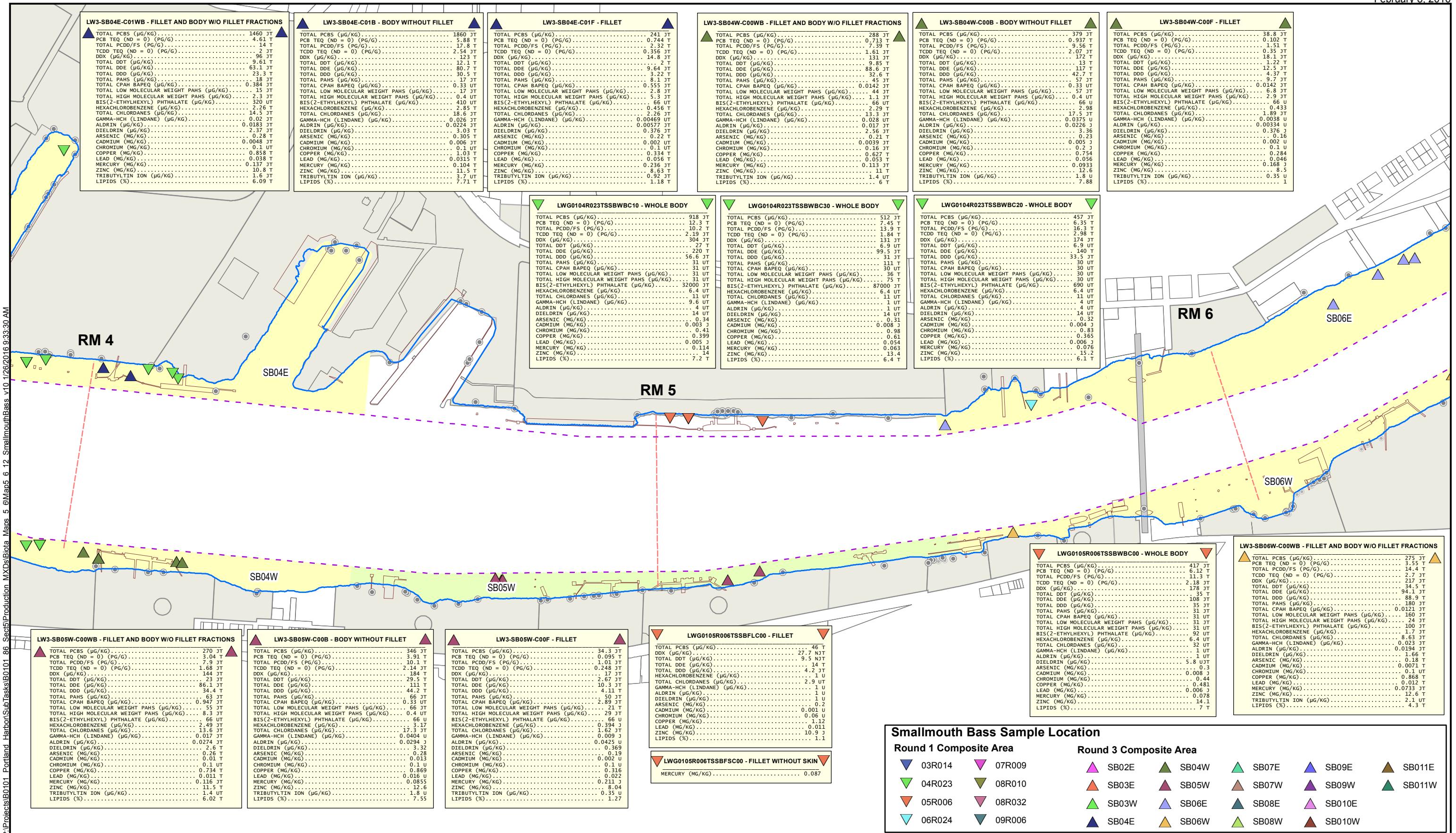


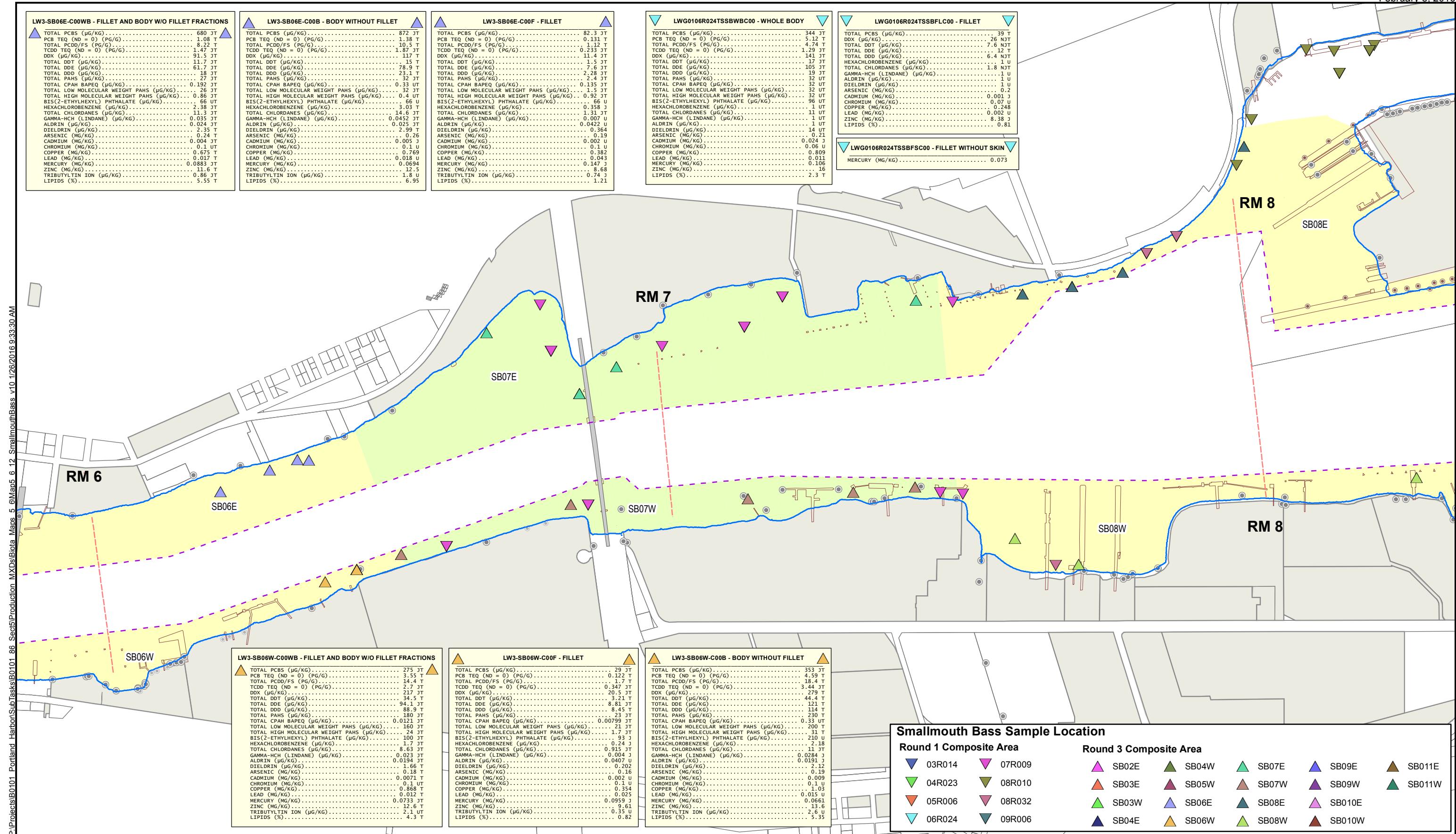
0 400 800 1,600 Feet

Map Features

- River Miles
- Navigation Channel
- Outfalls
- Docks and Structures
- Bridges
- Upland ECSI Sites (2008)
- Roof Drain
- Waterfront Taxlots

(Round 3) Smallmouth Bass
Composite Area





FEATURE SOURCES:
Transportation, Property, or Boundaries; Metro RLIS,
Chespol & Quivey Milieu JIS Army Corps of Engineers.

Map Features

- Legend**

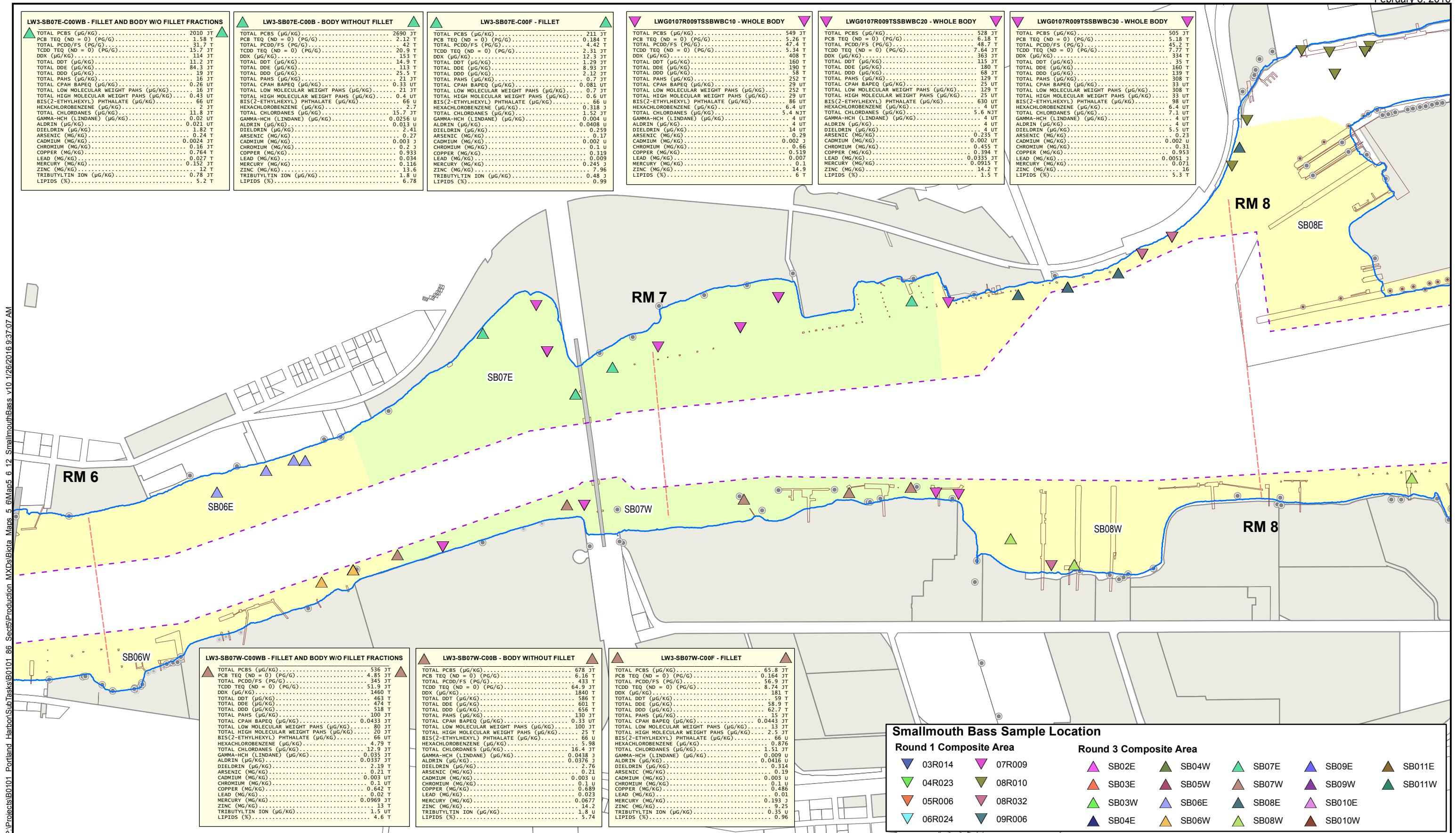
| | | | |
|----------------------|-----------------|----------------------------|--|
| — River Miles | Outfalls | ■ Bridges | (Round 3) Smallmouth Bass Composite Area |
| — Navigation Channel | ● Outfall | ■ Docks and Structures | |
| | ● Dock Drain | ■ Upland ECSI Sites (2008) | |
| | ● Roof Drain | ■ Waterfront Taxlots | |

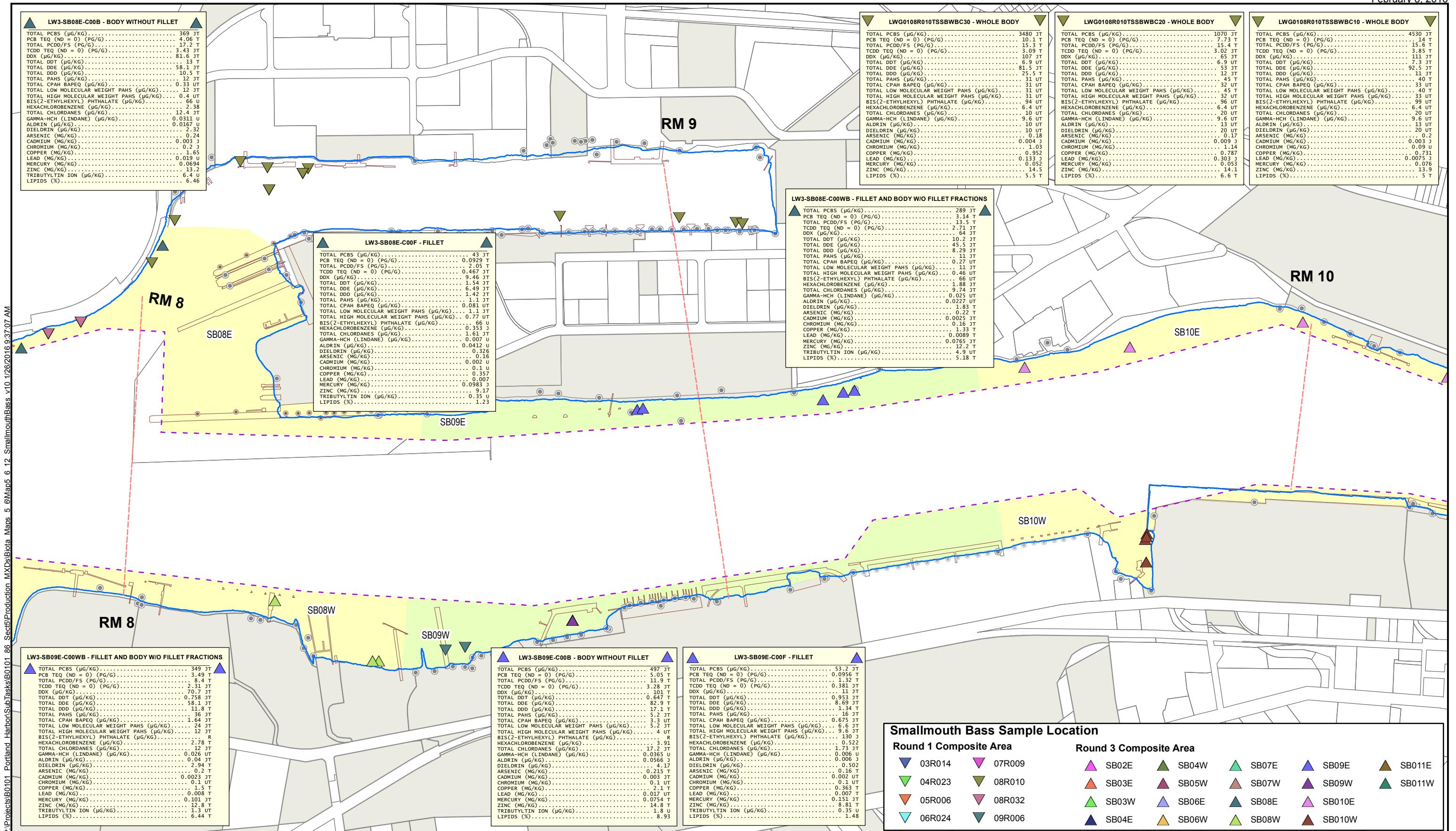
Map 5.6-12c1

Portland Harbor RI/FS
Remedial Investigation Report

Environmental Investigation Report Mercury Chemistry by Station Location, Smallmouth Bass

RM 6 to 8





FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

Map Features

- River Miles
- Navigation Channel
- Outfalls
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

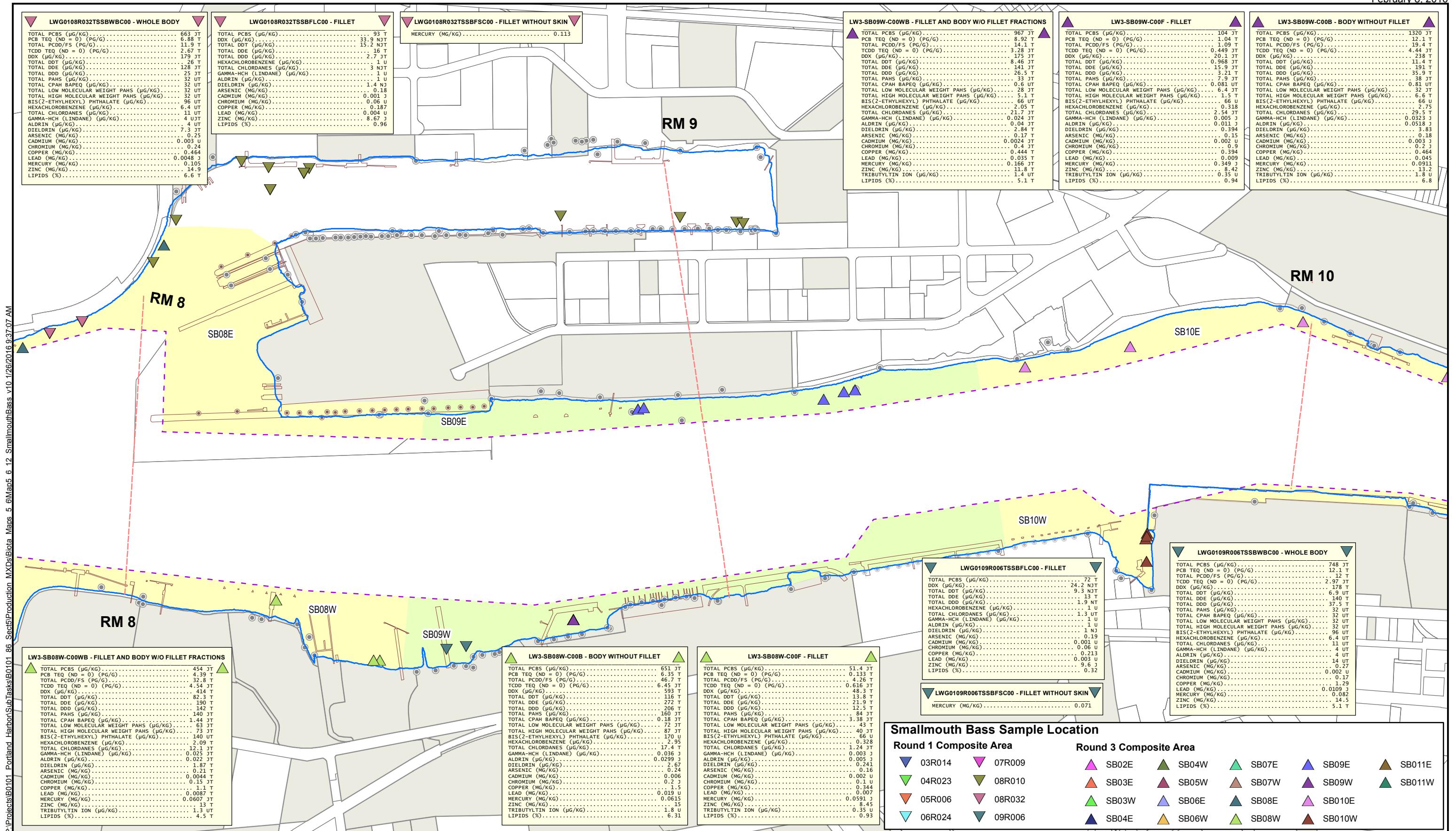
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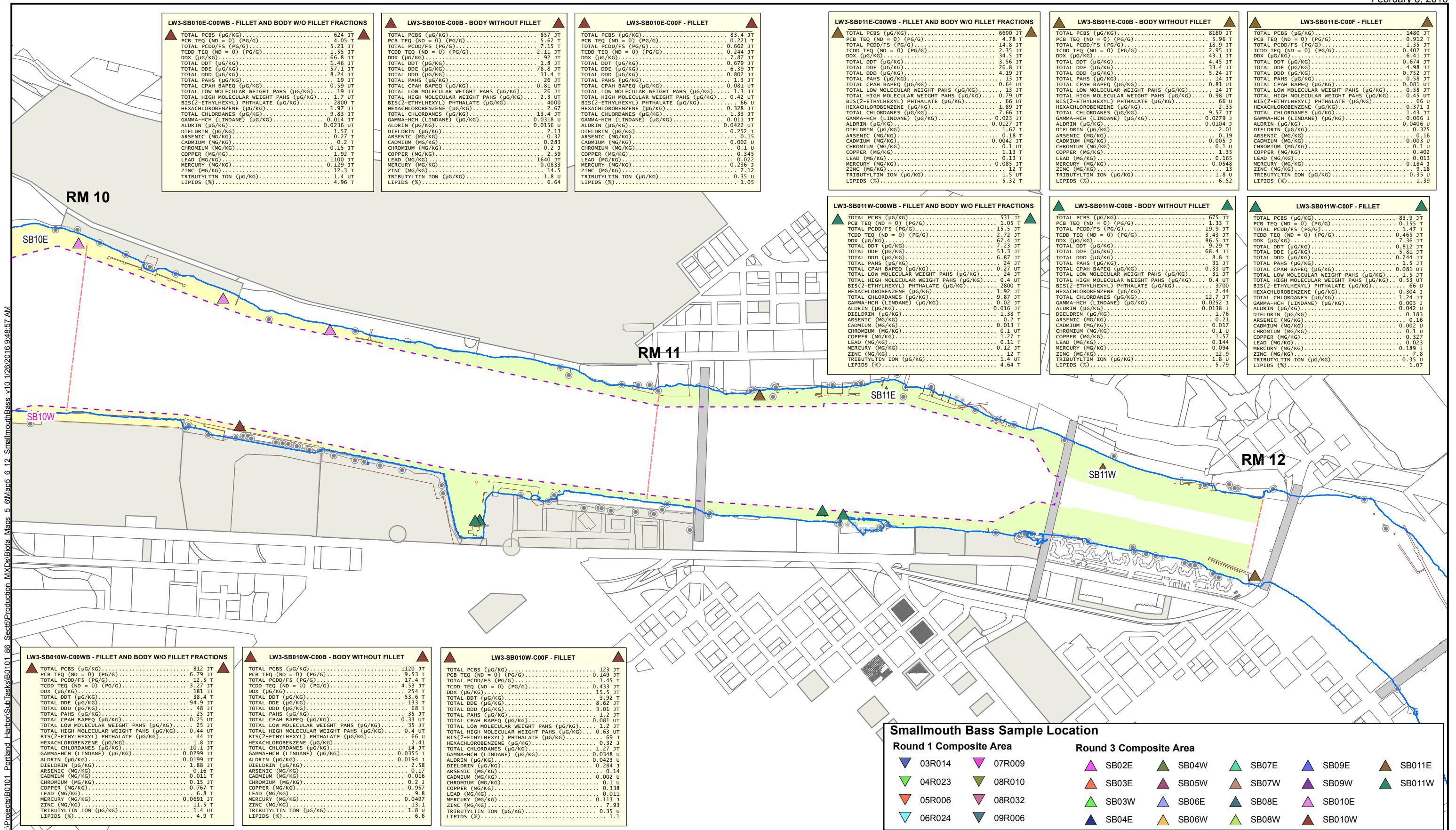
(Round 3) Smallmouth Bass Composite Area

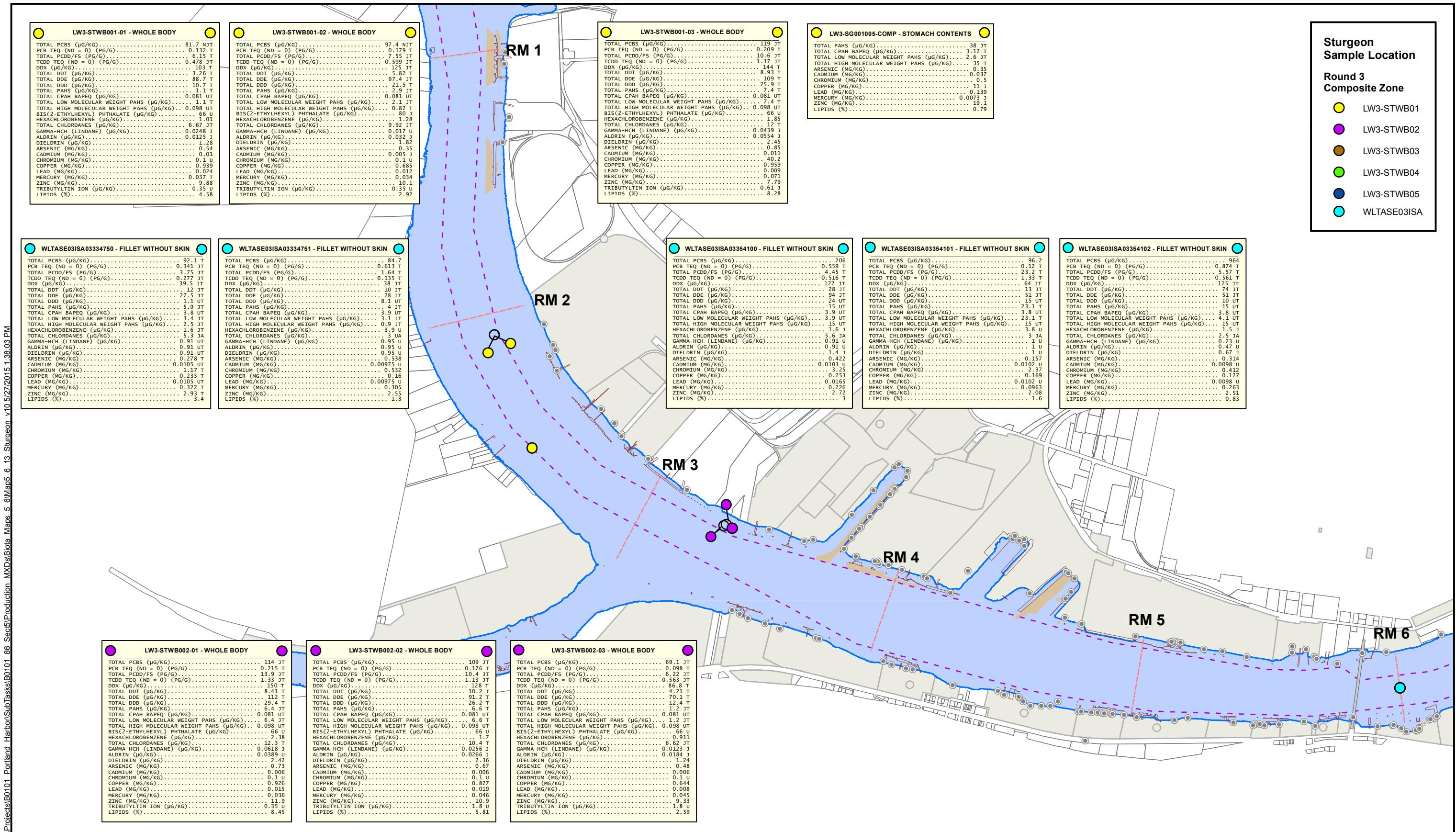
Map 5.6-12d1

Portland Harbor RI/FS Remedial Investigation Report Biota Chemistry by Station Location, Smallmouth Bass

RM 8 to 10







Map Features

River Miles

Navigation Channel

River Edge +13 ft NAVD

Outfalls

Docks and Structures

Roof Drain

Bridges

Upland ECSI Sites (2008)

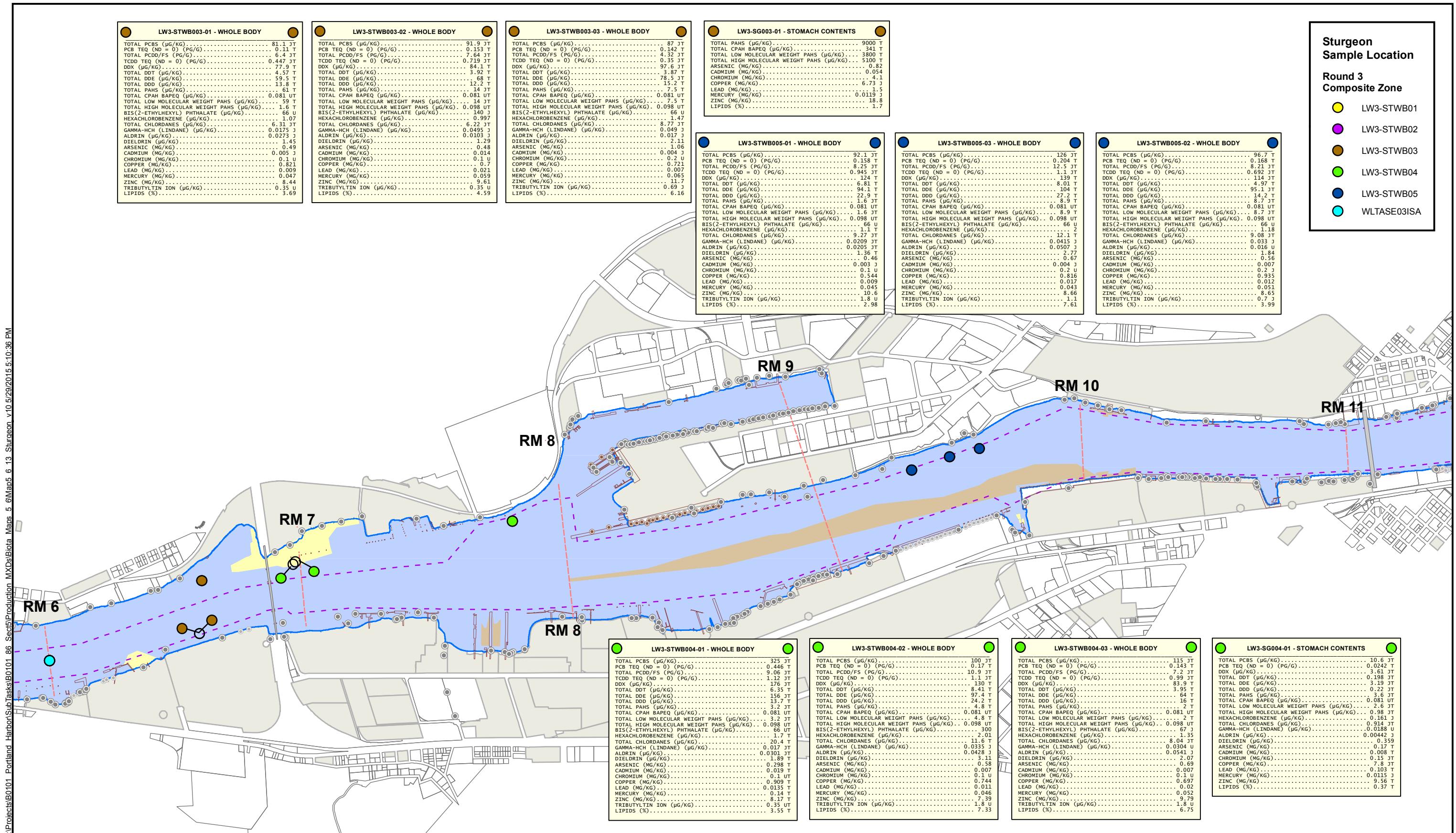
Waterfront Taxlots

Capping Areas

Dredging Areas

Map 5.6-13a

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Sturgeon



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

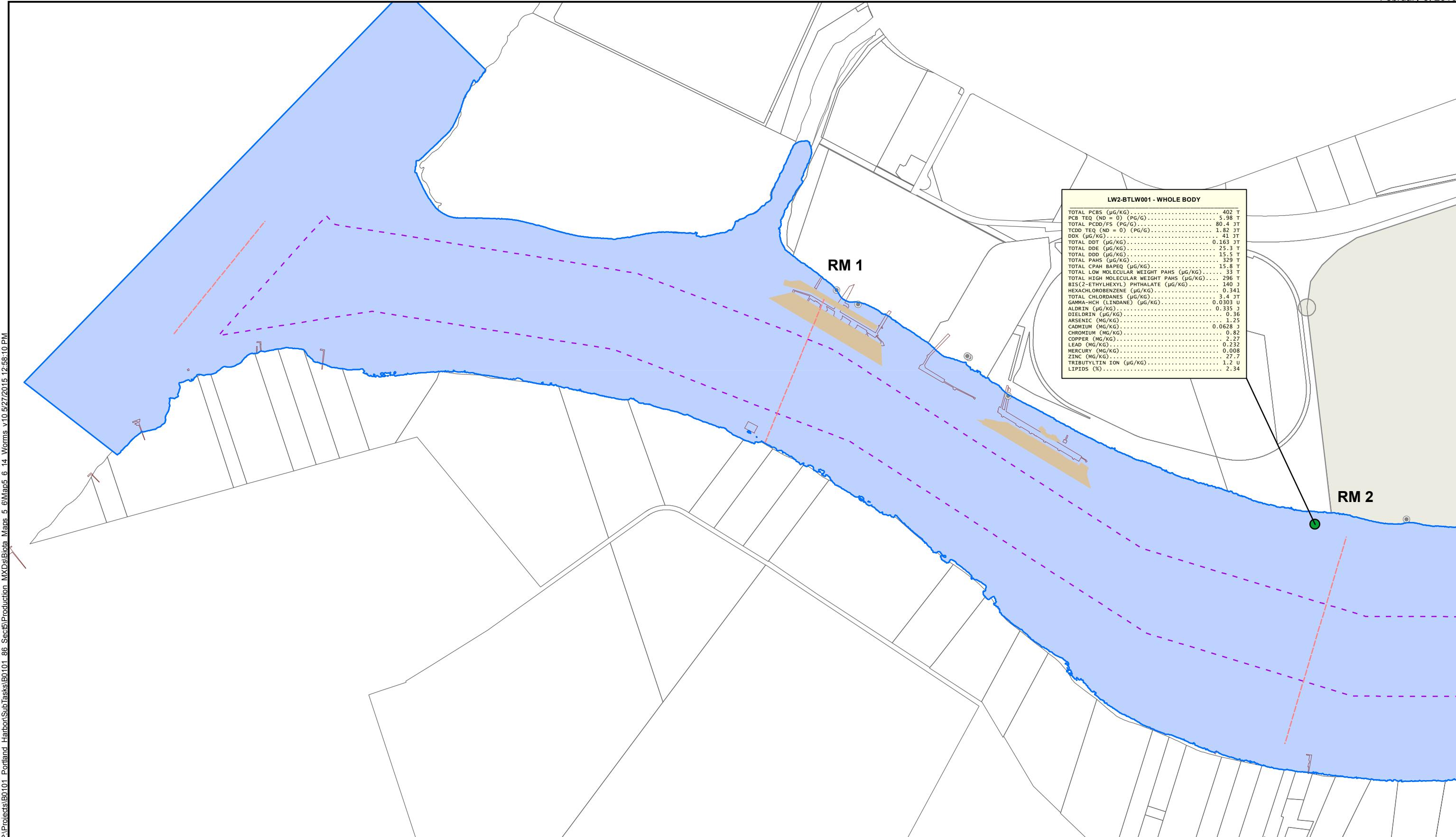
0 0.125 0.25 0.5 Miles

Map Features

- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Dock Drains
- Roof Drains

- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- Capping Areas
- Dredging Areas

- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- Capping Areas
- Dredging Areas



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 400 800 1,600 Feet

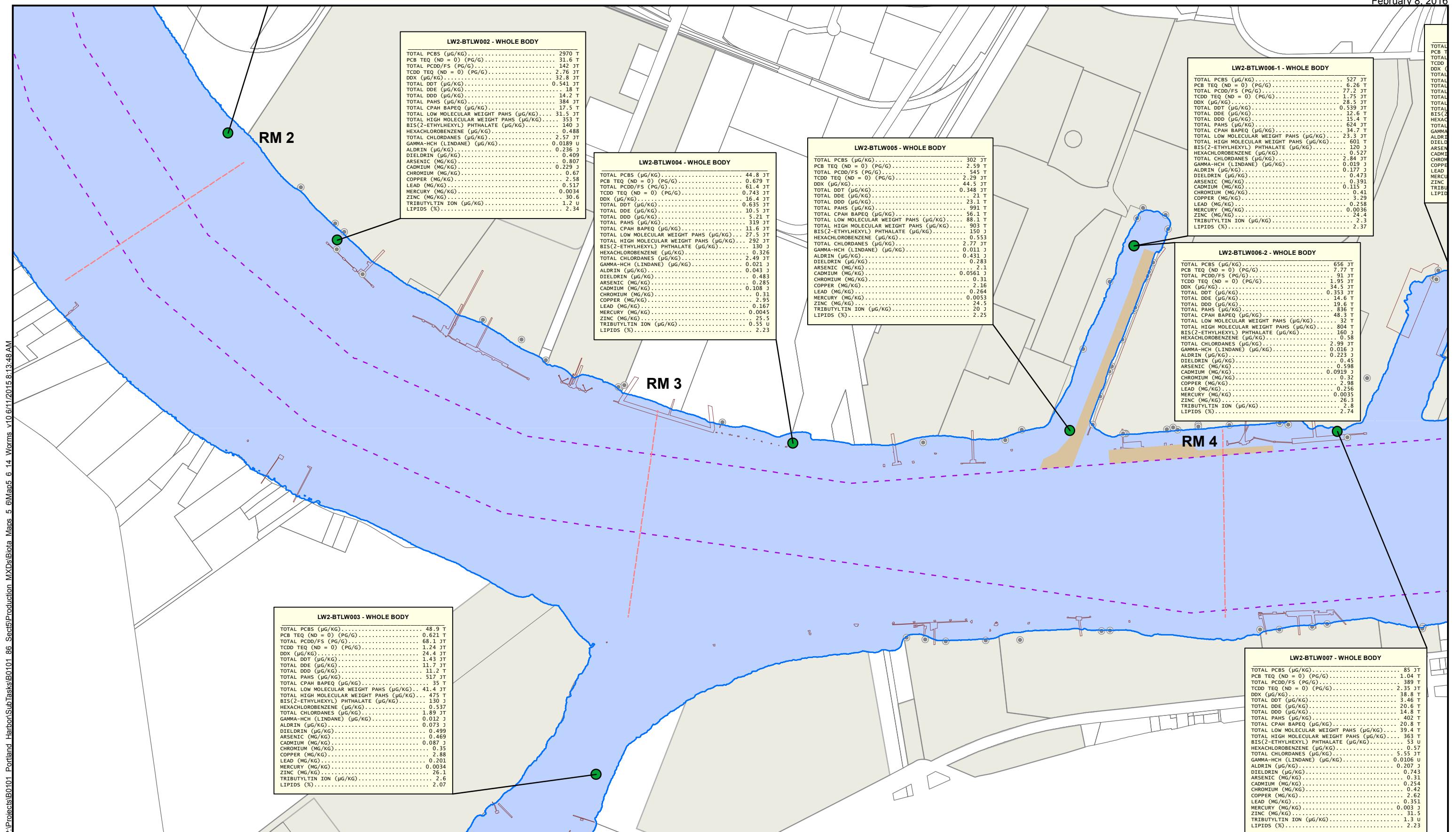
Map Features

- Lumbriculus variegatus Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD

- Outfalls
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

- Capping Areas
- Dredging Areas

Map 5.6-14a
Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Laboratory Worms
(*Lumbriculus variegatus*) Exposed to Site Sediments



Map Features

- Lumbriculus variegatus Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD
- Outfalls
- Outfall
- Dock Drain
- Roof Drain

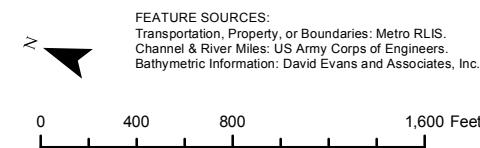
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots
- Capping Areas
- Dredging Areas

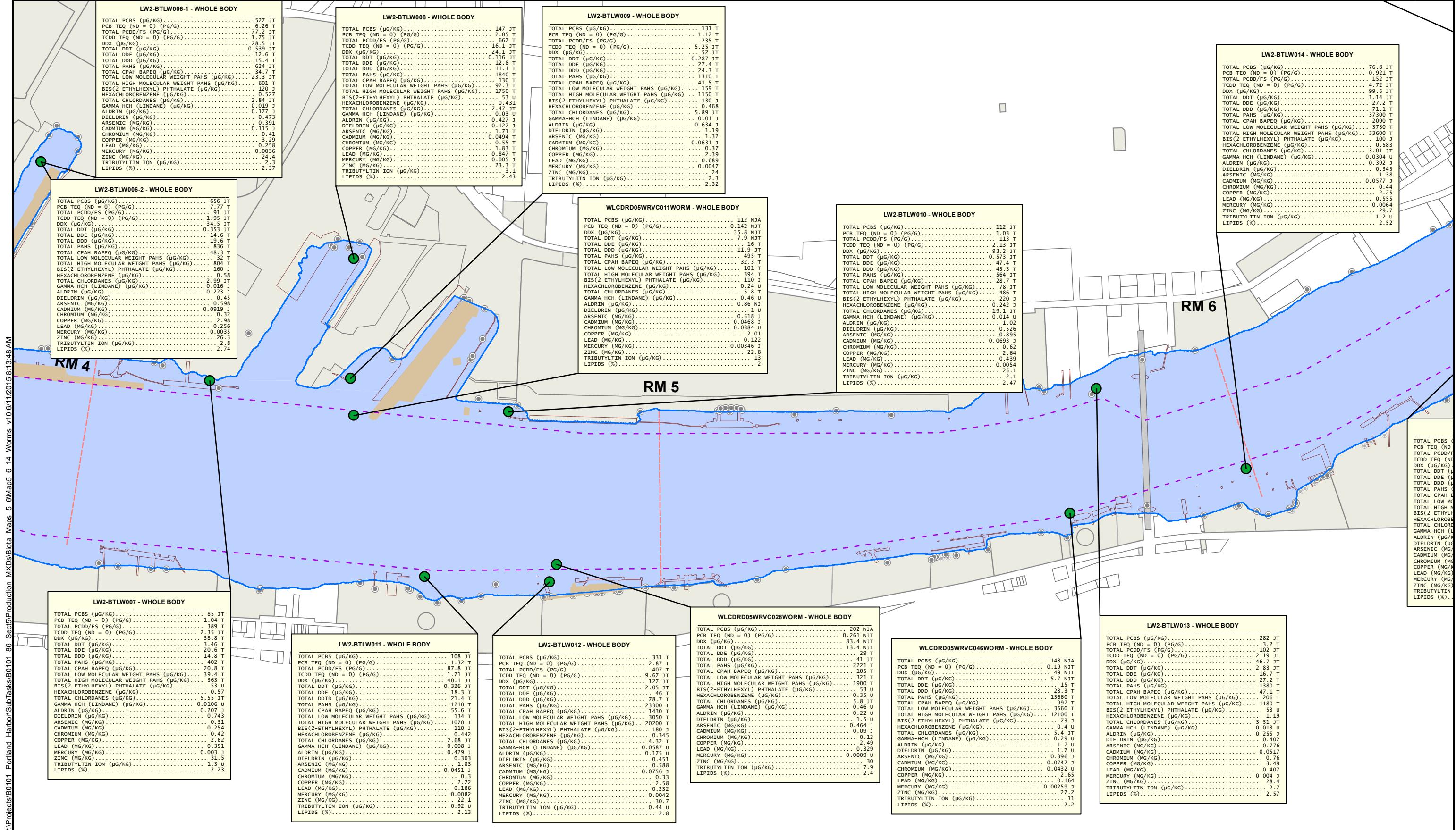
Map 5.6-14b

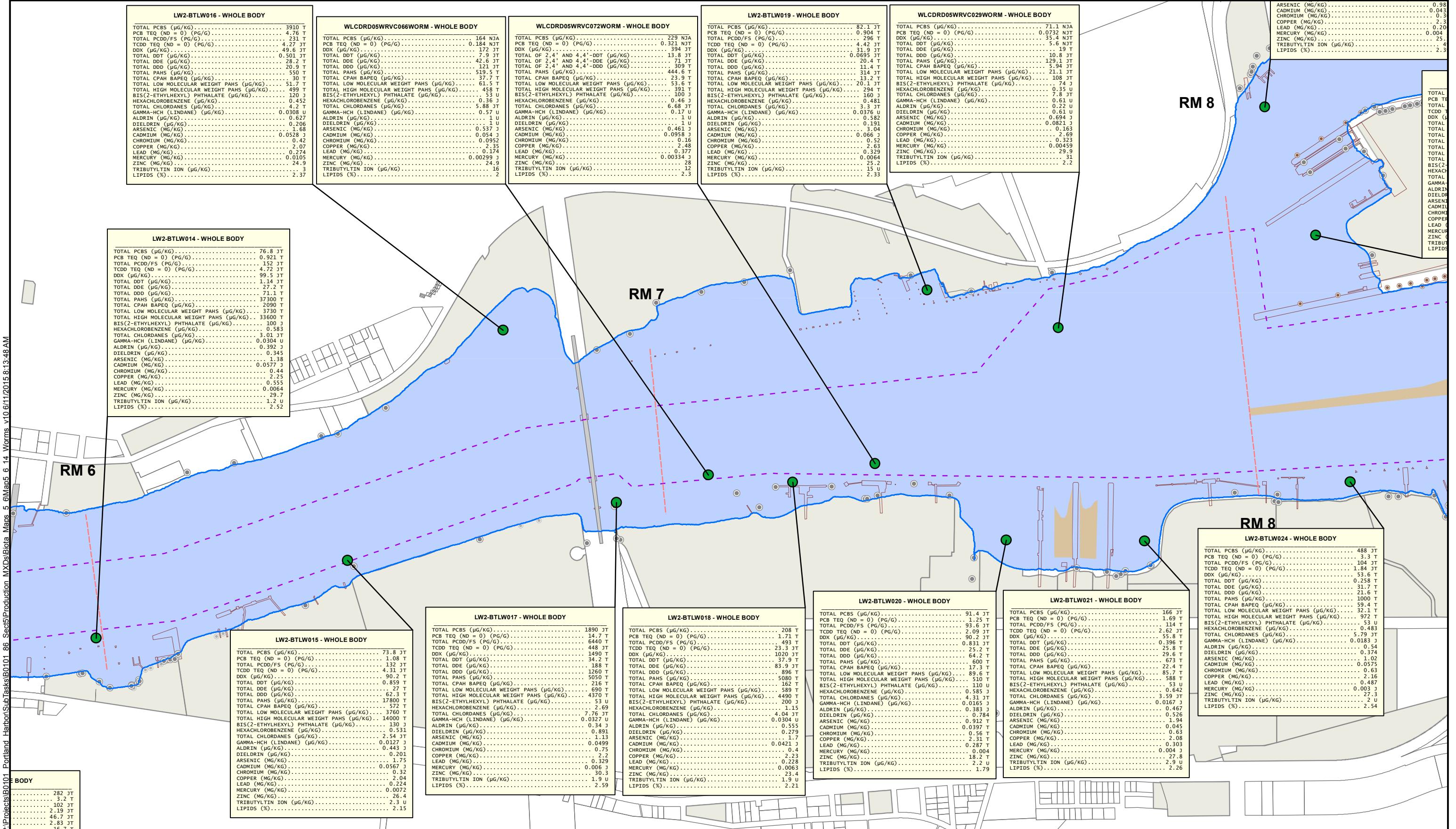
Portland Harbor RI/FS

Remedial Investigation Report

Biota Chemistry by Station Location, Laboratory Worms (*Lumbriculus variegatus*) Exposed to Site Sediments







FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

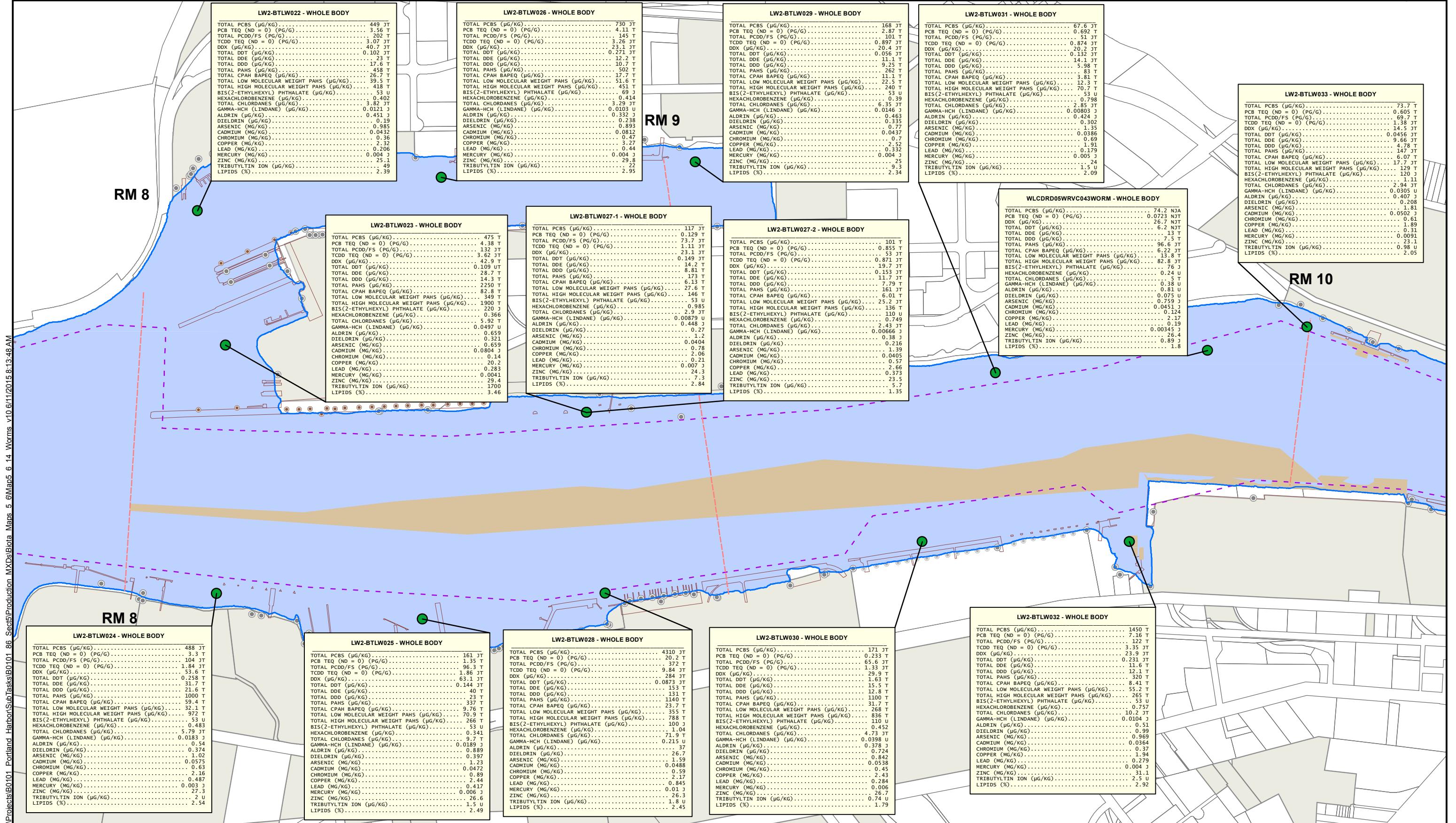
Map Features

- Lumbriculus variegatus Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD

- Outfall
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

- Capping Areas
- Dredging Areas

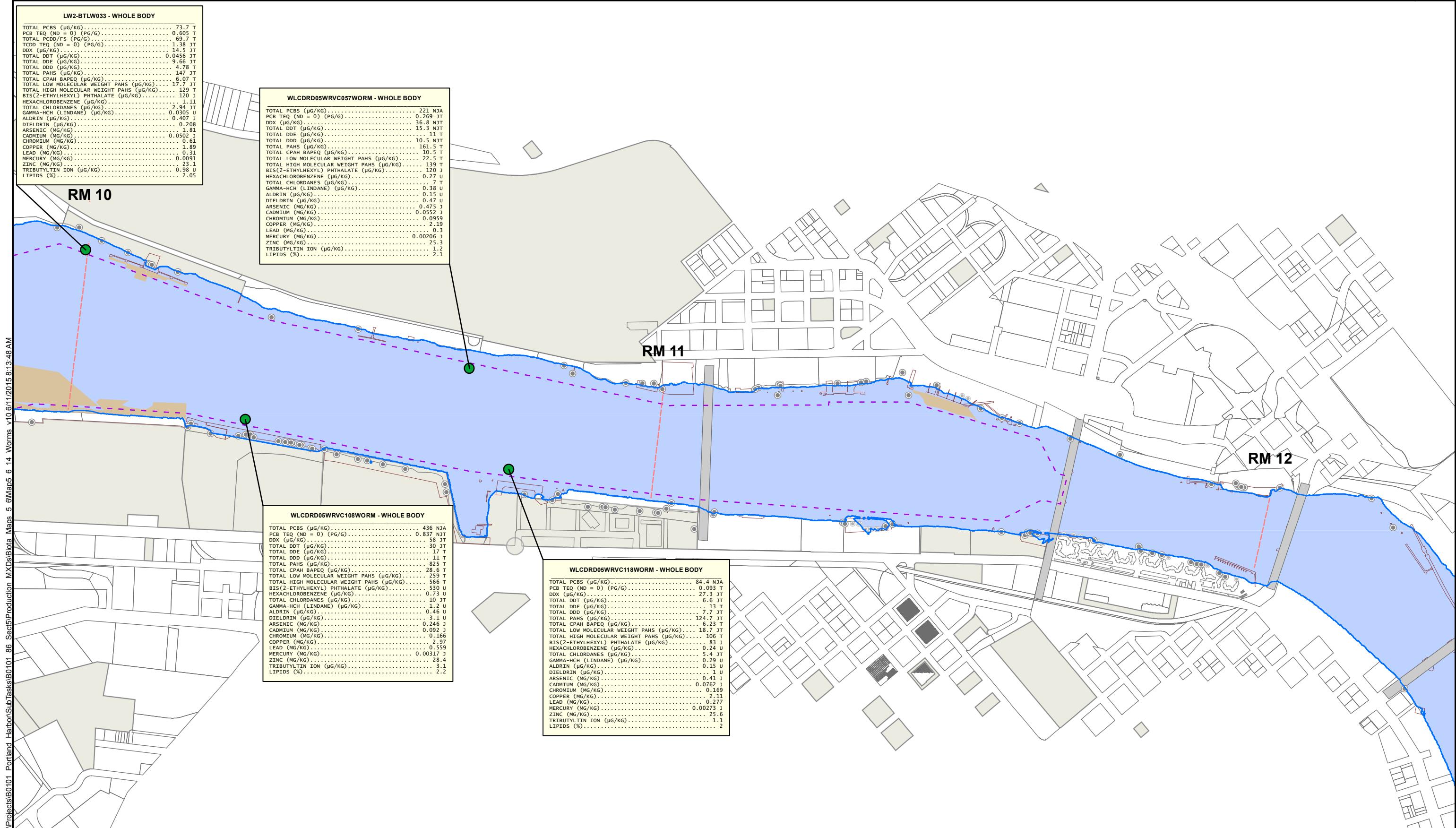
Map 5.6-14d
Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location, Laboratory Worms
(*Lumbriculus variegatus*) Exposed to Site Sediments



0 400 800 1,600 Feet

Map Features

- Lumbriculus variegatus Sample Location
- Outfall
- Dock Drain
- Navigation Channel
- River Edge +13 ft NAVD
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Dredging Areas
- Capping Areas
- Waterfront Taxlots



FEATURE SOURCES:
Transportation, Property, or Boundaries: Metro RLIS.
Channel & River Miles: US Army Corps of Engineers.
Bathymetric Information: David Evans and Associates, Inc.

0 400 800 1,600 Feet

Map Features

- Lumbriculus variegatus Sample Location
- River Miles
- Navigation Channel
- River Edge +13 ft NAVD

- Outfall
- Dock Drain
- Roof Drain
- Bridges
- Docks and Structures
- Upland ECSI Sites (2008)
- Waterfront Taxlots

- Capping Areas
- Dredging Areas

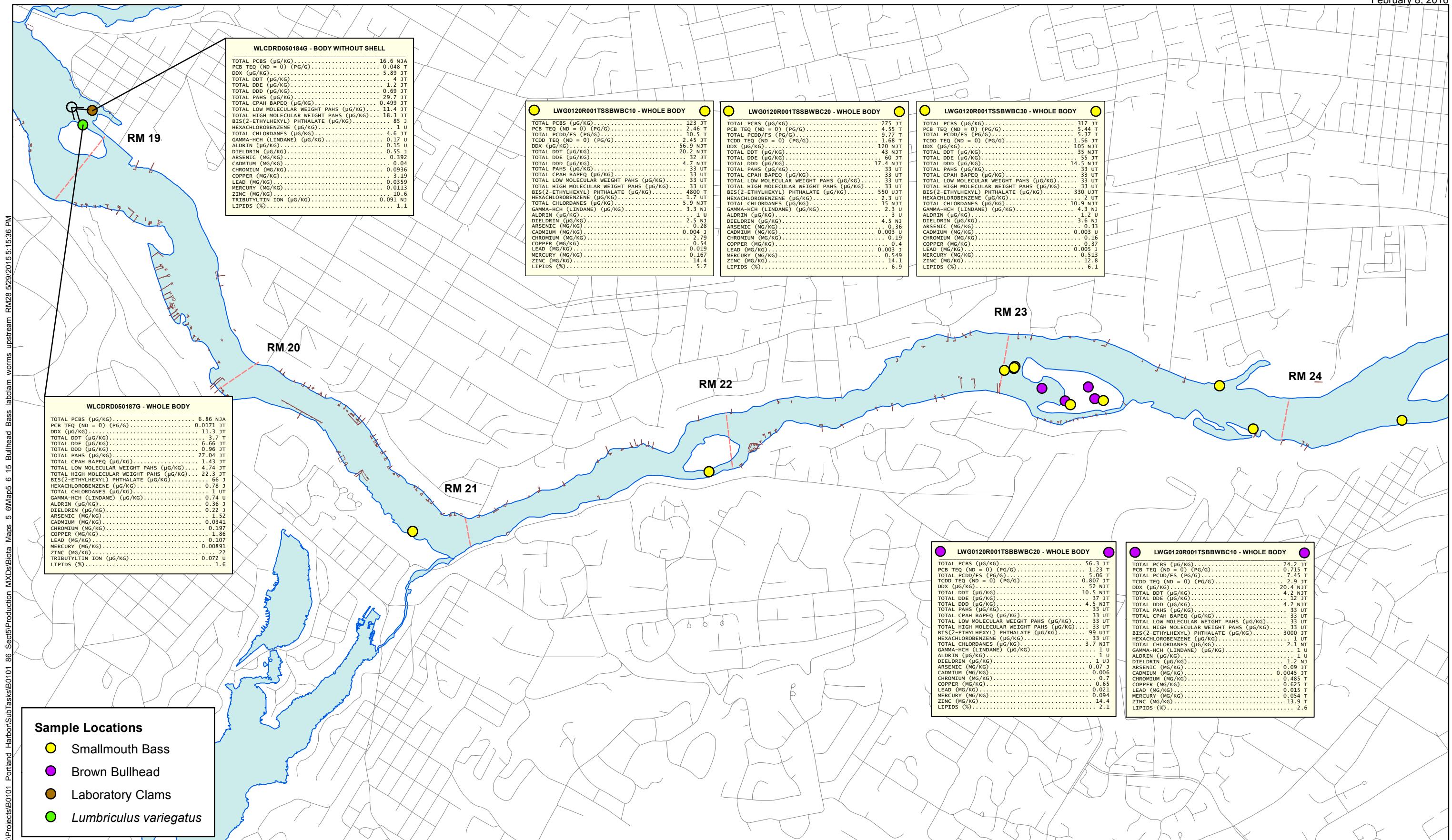
Map 5.6-14

Portland Harbor RI/FS

Remedial Investigation Report

Biota Chemistry by Station Location, Laboratory Worms
(*Lumbriculus variegatus*) Exposed to Site Sediments

RM 10 to 11



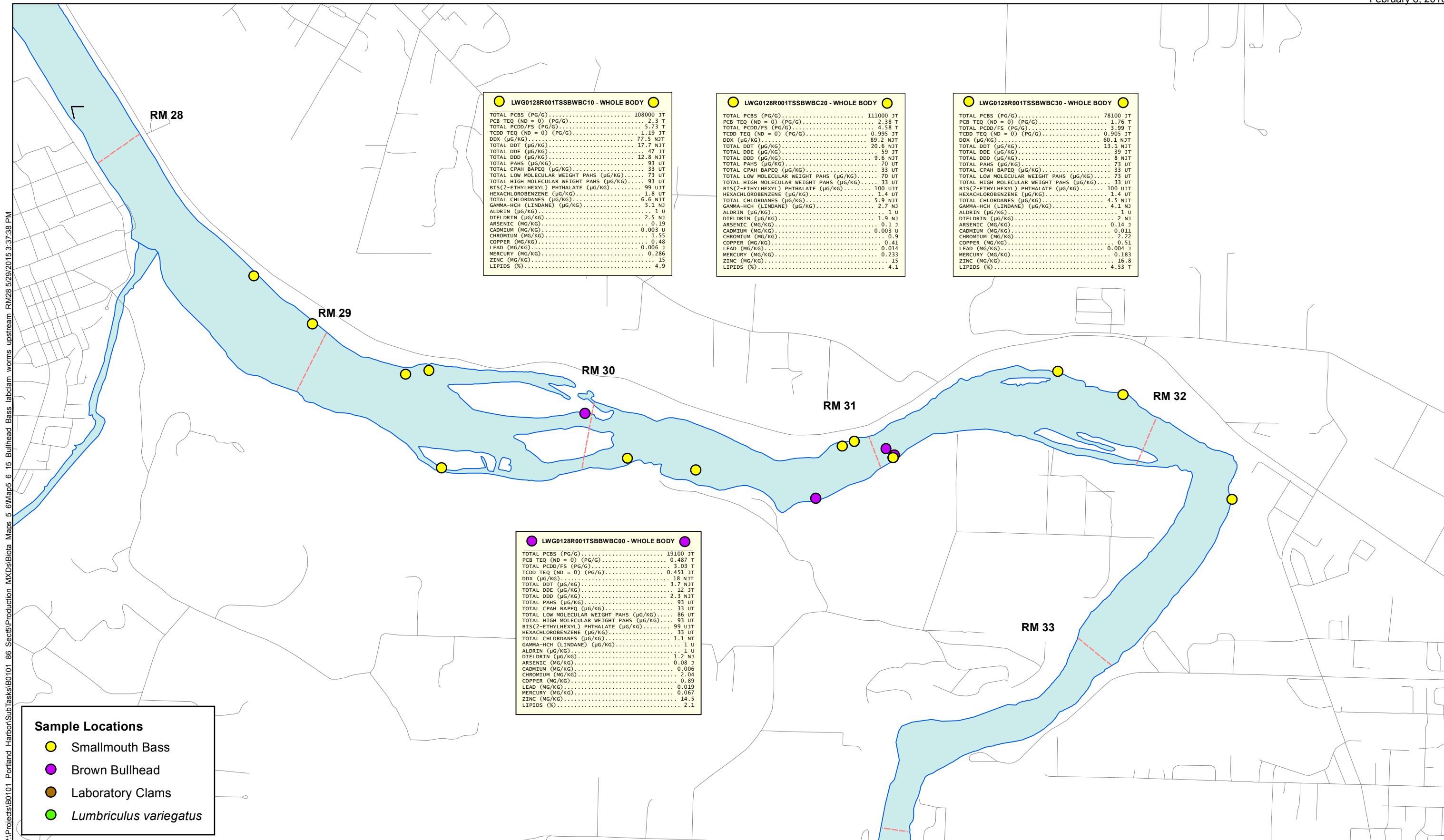
Map 5.6-15a

Portland Harbor RI/FS

Remedial Investigation Report

Biota Chemistry by Station Location

Smallmouth Bass, Brown Bullhead, Laboratory Clams and Worms



Map Features

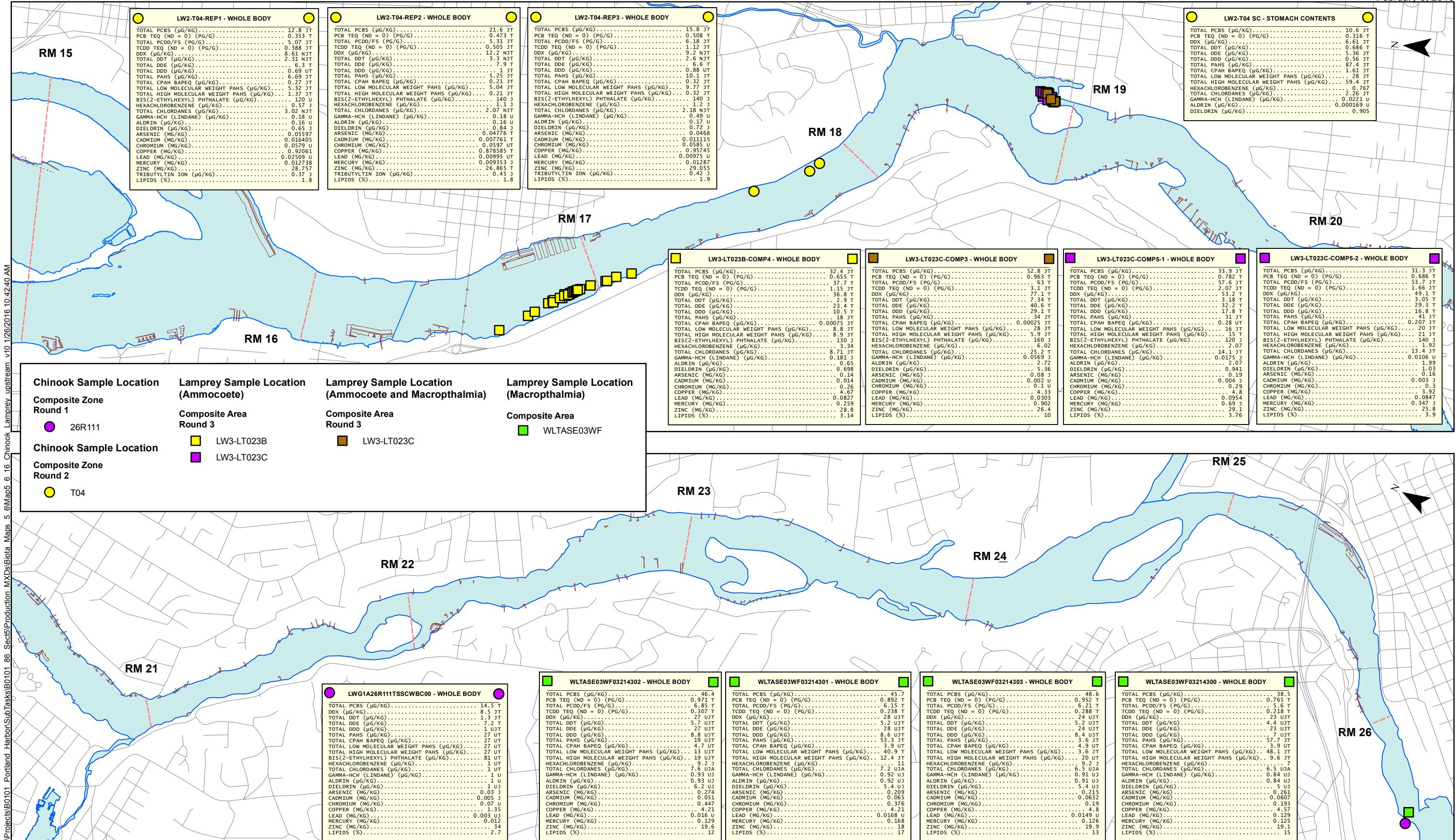
- River Miles (Dashed red line)
- River Edge +13 ft NAVD (Blue line)
- Docks and Structures (Red boxes)

0 1,000 2,000 3,000 Feet

Map 5.6-15b

Portland Harbor RI/FS
Remedial Investigation Report
Biota Chemistry by Station Location

Smallmouth Bass, Brown Bullhead, Laboratory Clams and Worms



Map 5.6-16

Map 8.8-18 Harbor RI/FS

Portland Harbor RIIC
Remedial Investigation Report
Toxics Chemistry by Station Location
Juvenile Chinook and Lamprey

RM 16 to 26